



## ANALYTICAL DATA REPORT

JMC Environmental Consultants  
2109 Bridge Avenue  
Building B  
Point Pleasant, NJ 08742

Project Name: **ARSYNCO**  
IAL Case Number: **E13-10707**

These data have been reviewed and accepted by:

A handwritten signature in black ink, appearing to read "Michael H. Lefrin".

Michael H. Lefrin, Ph.D.  
Laboratory Director

This report shall not be reproduced, except in its entirety, without the written consent of Integrated Analytical Laboratories, LLC. The test results included in this report relate only to the samples analyzed. The results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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IAL is a NELAC New Jersey Certified Lab (14751) and maintains certification in Connecticut (PH-0699), New York (11402), Rhode Island (OC126) Pennsylvania (68-00773); and in the Department of Navy IR QA Program.

# *Sample Summary*

*IAL Case No.*

**E13-10707**

*Client JMC Environmental Consultants*

*Project ARSYNCO*

*Received On* 10/28/2013@16:10

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Depth Top/Bottom</u>	<u>Sampling Time</u>	<u>Matrix</u>	<u># of Container</u>
10707-001	P-48N (0-1.0)	0/1	10/28/2013@10:00	Soil	1
10707-002	P-48N (1.0-2.0)	1/2	10/28/2013@10:01	Soil	1
10707-003	W-43 (3.0-4.0)	3/4	10/28/2013@10:36	Soil	1
10707-004	W-43 (4.0-5.0)	4/5	10/28/2013@10:37	Soil	1
10707-005	W-43 (5.0-6.0)	5/6	10/28/2013@10:38	Soil	1
10707-006	W-43 (6.0-7.0)	6/7	10/28/2013@10:39	Soil	1
10707-007	AA-48 (0-1.0)	0/1	10/28/2013@11:29	Soil	1
10707-008	AA-48 (1.0-2.0)	1/2	10/28/2013@11:30	Soil	1
10707-009	BB-48 (0-1.0)	0/1	10/28/2013@11:46	Soil	1
10707-010	BB-48 (1.0-2.0)	1/2	10/28/2013@11:47	Soil	1
10707-011	CC-46S (0-1.0)	0/1	10/28/2013@12:08	Soil	1
10707-012	CC-46S (1.0-2.0)	1/2	10/28/2013@12:09	Soil	1
10707-013	AA-45N (0-1.0)	0/1	10/28/2013@13:25	Soil	1
10707-014	AA-45N (1.0-2.0)	1/2	10/28/2013@13:26	Soil	1
10707-015	AA-45N (2.0-3.0)	2/3	10/28/2013@13:27	Soil	1
10707-016	AA-45 (0-1.0)	0/1	10/28/2013@13:48	Soil	1
10707-017	AA-45 (1.0-2.0)	1/2	10/28/2013@13:49	Soil	1
10707-018	Z-45R (0-1.0)	0/1	10/28/2013@14:15	Soil	1
10707-019	Z-45R (1.0-2.0)	1/2	10/28/2013@14:16	Soil	1
10707-020	FB-27	n/a	10/28/2013@14:35	Aqueous	2

# INTEGRATED ANALYTICAL LABORATORIES, LLC.

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This report was finalized on November 12, 2013

\* Methodology is included in the IAL Project Information Page

# INTEGRATED ANALYTICAL LABORATORIES, LLC.

## DEFINITIONS / QUALIFIERS

### DATA QUALIFIERS

- B Indicates the analyte was found in the associated method blank as well as in the sample.  
It indicates probable laboratory contamination.
- C Indicates analyte is a common laboratory contaminant.
- D Indicates analyte was reported from diluted analysis.
- E Identifies a compound concentration that exceeds the upper level of the calibration range of the instrument.
- J Indicates an estimated value. This flag is used when the concentration in the sample is below the RL but above the MDL or for qualification of tentatively identified compounds.
- N Presumptive evidence of a compound from the use of GC/MS library search.
- X Indicates samples analyzed for total and dissolved metals differ at  $\leq 20\%$  RPD.
- Z Indicates internal standard failure. Sample results are either biased high or biased low.

### REPORTING DEFINITIONS

RL Reporting Limit. The RL is determined by the lowest concentration in the calibration curve. For most Wet Chemistry methods, the RL is defined by using the PQL.

MDL Method Detection Limit as determined according to 40CFR Part 136 Appendix B.

PQL Practical Quantitation Limit. Usually defined as a value 3-5 times the MDL.

ND Indicates analyte was analyzed for but not detected above the MDL.

DF Dilution Factor

LCS Laboratory Control Sample

LCSD Laboratory Control Sample Duplicate

MS Matrix Spike

MSD Matrix Spike Duplicate

DUP Duplicate

## **CONFORMANCE / NON-CONFORMANCE SUMMARIES**

**INTEGRATED ANALYTICAL LABORATORIES, LLC.**

**CONFORMANCE / NONCONFORMANCE SUMMARY**

Integrated Analytical Laboratories, LLC. received one (1) aqueous and nineteen (19) soil sample(s) from JMC Environmental Consultants (IAL SDG # E13-10707, Project: ARSYNCO) on October 28, 2013 for the analysis of:

(20) TCL PCB

A review of the QA/QC measures for the analysis of the sample(s) contained in this report has been performed by:

Johnno  
Reviewed by

11/11/13  
Date

# SAMPLE DELIVERY GROUP CASE NARRATIVE

SDG#: E13-10707

PCB By 8082A

Batch ID: 131101-10	Matrix: Aqueous
---------------------	-----------------

- |           |  |
|-----------|--|
| QC        | <ul style="list-style-type: none"><li>- Calibration Curve met QC criteria.</li><li>- Surrogate Percent Recovery met QC criteria.</li><li>- Method Blank met QC criteria.</li><li>- LCS Percent Recovery met QC criteria.</li><li>- MS/MSD Percent Recovery met QC criteria.</li><li>- RPD between MS/MSD met QC criteria.</li><li>- The following samples were cleaned up using method 3660B to remove sulfur: 020</li><li>- The following samples were cleaned up using method 3665A: 020</li></ul> |
| E13-10707 | <ul style="list-style-type: none"><li>- All samples were extracted within holding time.</li><li>- All samples were analyzed within holding time.</li><li>- Retention Time Shift met QC criteria.</li><li>- No dilution was performed for sample 10707 -020.</li></ul>  |



11/4/2013

Signature

Date

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E13-10707

0004

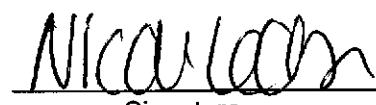
# SAMPLE DELIVERY GROUP CASE NARRATIVE

**SDG#: E13-10707**

PCB By 8082A

<b>Batch ID:</b> 131029-14	<b>Matrix:</b> Soil
----------------------------	---------------------

- QC**
- Calibration Curve met QC criteria.
  - Surrogate Percent Recovery met QC criteria.
  - Method Blank met QC criteria.
  - LCS Percent Recovery met QC criteria.
  - MS/MSD Percent Recovery met QC criteria.
  - RPD between MS/MSD met QC criteria.
  - The RPD between the primary and secondary column was >40% for the following samples: 10707 -009, -016. Per SW-846 8000C, the lower of the two concentrations was reported.
  - The following samples were cleaned up using method 3660B to remove sulfur: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019
- E13-10707**
- All samples were extracted within holding time.
  - All samples were analyzed within holding time.
  - Retention Time Shift met QC criteria.
  - Samples 10707 -009, -010 were run with 5x dilution due to high concentrations of the target compounds. No dilution was performed for samples -001 through -008 and -011 through -019.

  
Niculai Lohm  
Signature

11/1/2013

Date

E13-10707 0005

## **RESULTS SUMMARY REPORT**

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E13-10707 0006

**INTEGRATED ANALYTICAL LABORATORIES, LLC.**

**SUMMARY REPORT**

**Client: JMC Environmental Consultants**

**Project: ARSYNCO**

**Lab Case No.: E13-10707**

Lab ID:	10707-020								
Client ID:	FB-27								
Matrix:	Aqueous								
Sampled Date	10/28/13								
<b>PARAMETER(Units)</b>	Conc	Q	MDL						
<b>PCB's (Units)</b>	<i>(mg/L-ppm)</i>								
Aroclor-1016	ND	0.00002							
Aroclor-1221	ND	0.00002							
Aroclor-1232	ND	0.00002							
Aroclor-1242	ND	0.00002							
Aroclor-1248	ND	0.00002							
Aroclor-1254	ND	0.00002							
Aroclor-1260	ND	0.00002							
Aroclor-1262	ND	0.00002							
Aroclor-1268	ND	0.00002							
PCBs	ND								
Lab ID:	10707-001	10707-002	10707-003	10707-004					
Client ID:	P-48N (0-1.0)	P-48N (1.0-2.0)	W-43 (3.0-4.0)	W-43 (4.0-5.0)					
Depth:	0/1	1/2	3/4	4/5					
Matrix:	Soil	Soil	Soil	Soil					
Sampled Date	10/28/13	10/28/13	10/28/13	10/28/13					
<b>PARAMETER(Units)</b>	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
<b>PCB's (Units)</b>	<i>(mg/Kg-ppm)</i>		<i>(mg/Kg-ppm)</i>		<i>(mg/Kg-ppm)</i>		<i>(mg/Kg-ppm)</i>		
Aroclor-1016	ND	0.041	ND	0.096	ND	0.061	ND	0.023	
Aroclor-1221	ND	0.041	ND	0.096	ND	0.061	ND	0.023	
Aroclor-1232	ND	0.041	ND	0.096	ND	0.061	ND	0.023	
Aroclor-1242	ND	0.041	ND	0.096	ND	0.061	ND	0.023	
Aroclor-1248	1.82	0.041	0.499	0.096	1.10	0.061	0.051	J 0.023	
Aroclor-1254	ND	0.041	ND	0.096	ND	0.061	ND	0.023	
Aroclor-1260	ND	0.041	ND	0.096	0.894	0.061	0.051	J 0.023	
Aroclor-1262	ND	0.041	ND	0.096	ND	0.061	ND	0.023	
Aroclor-1268	ND	0.041	ND	0.096	ND	0.061	ND	0.023	
PCBs	1.82		0.499		1.99		0.102	J	
Lab ID:	10707-005	10707-006	10707-007	10707-008					
Client ID:	W-43 (5.0-6.0)	W-43 (6.0-7.0)	AA-48 (0-1.0)	AA-48 (1.0-2.0)					
Depth:	5/6	6/7	0/1	1/2					
Matrix:	Soil	Soil	Soil	Soil					
Sampled Date	10/28/13	10/28/13	10/28/13	10/28/13					
<b>PARAMETER(Units)</b>	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
<b>PCB's (Units)</b>	<i>(mg/Kg-ppm)</i>		<i>(mg/Kg-ppm)</i>		<i>(mg/Kg-ppm)</i>		<i>(mg/Kg-ppm)</i>		
Aroclor-1016	ND	0.018	ND	0.021	ND	0.070	ND	0.101	
Aroclor-1221	ND	0.018	ND	0.021	ND	0.070	ND	0.101	
Aroclor-1232	ND	0.018	ND	0.021	ND	0.070	ND	0.101	
Aroclor-1242	ND	0.018	ND	0.021	ND	0.070	ND	0.101	
Aroclor-1248	ND	0.018	0.141	0.021	2.12	0.070	0.644	0.101	
Aroclor-1254	ND	0.018	ND	0.021	ND	0.070	ND	0.101	
Aroclor-1260	ND	0.018	ND	0.021	ND	0.070	ND	0.101	
Aroclor-1262	ND	0.018	ND	0.021	ND	0.070	ND	0.101	
Aroclor-1268	ND	0.018	ND	0.021	ND	0.070	ND	0.101	
PCBs	ND		0.141		2.12		0.644		

ND = Analyzed for but Not Detected at the MDL

J = The concentration was detected at a value below the RL and above the MDL

E13-10707 0007

**INTEGRATED ANALYTICAL LABORATORIES, LLC.**

**SUMMARY REPORT**  
**Client: JMC Environmental Consultants**  
**Project: ARSYNCO**  
**Lab Case No.: E13-10707**

	<b>Lab ID:</b> 10707-009	<b>Lab ID:</b> 10707-010	<b>Lab ID:</b> 10707-011	<b>Lab ID:</b> 10707-012								
<b>PARAMETER(Units)</b>	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
<b>PCB's (Units)</b>	<i>(mg/Kg-ppm)</i>			<i>(mg/Kg-ppm)</i>			<i>(mg/Kg-ppm)</i>			<i>(mg/Kg-ppm)</i>		
Aroclor-1016	ND	0.032	ND	0.026	ND	0.134	ND	0.038	ND	0.038	ND	0.038
Aroclor-1221	ND	0.032	ND	0.026	ND	0.134	ND	0.038	ND	0.038	ND	0.038
Aroclor-1232	ND	0.032	ND	0.026	ND	0.134	ND	0.038	ND	0.038	ND	0.038
Aroclor-1242	ND	0.032	ND	0.026	ND	0.134	ND	0.038	ND	0.038	ND	0.038
Aroclor-1248	21.0	D	0.159	21.3	D	0.129	8.62	0.134	ND	0.038	ND	0.038
Aroclor-1254	ND	0.032	ND	0.026	ND	0.134	ND	0.038	ND	0.038	ND	0.038
Aroclor-1260	ND	0.032	ND	0.026	ND	0.134	ND	0.038	ND	0.038	ND	0.038
Aroclor-1262	ND	0.032	ND	0.026	ND	0.134	ND	0.038	ND	0.038	ND	0.038
Aroclor-1268	ND	0.032	ND	0.026	ND	0.134	ND	0.038	ND	0.038	ND	0.038
PCBs	21.0	D		21.3	D		8.62		ND		ND	
<b>PARAMETER(Units)</b>	<b>Lab ID:</b> 10707-013	<b>Lab ID:</b> 10707-014	<b>Lab ID:</b> 10707-015	<b>Lab ID:</b> 10707-016								
	<b>Client ID:</b> AA-45N (0-1.0)	<b>Client ID:</b> AA-45N (1.0-2.0)	<b>Client ID:</b> AA-45N (2.0-3.0)	<b>Client ID:</b> AA-45 (0-1.0)								
	<b>Depth:</b> 0/1	<b>Depth:</b> 1/2	<b>Depth:</b> 2/3	<b>Depth:</b> 0/1								
	<b>Matrix:</b> Soil	<b>Matrix:</b> Soil	<b>Matrix:</b> Soil	<b>Matrix:</b> Soil								
	<b>Sampled Date:</b> 10/28/13	<b>Sampled Date:</b> 10/28/13	<b>Sampled Date:</b> 10/28/13	<b>Sampled Date:</b> 10/28/13								
<b>PARAMETER(Units)</b>	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
<b>PCB's (Units)</b>	<i>(mg/Kg-ppm)</i>			<i>(mg/Kg-ppm)</i>			<i>(mg/Kg-ppm)</i>			<i>(mg/Kg-ppm)</i>		
Aroclor-1016	ND	0.093	ND	0.092	ND	0.081	ND	0.083	ND	0.083	ND	0.083
Aroclor-1221	ND	0.093	ND	0.092	ND	0.081	ND	0.083	ND	0.083	ND	0.083
Aroclor-1232	ND	0.093	ND	0.092	ND	0.081	ND	0.083	ND	0.083	ND	0.083
Aroclor-1242	ND	0.093	ND	0.092	ND	0.081	ND	0.083	ND	0.083	ND	0.083
Aroclor-1248	40.4	0.093	ND	0.092	0.268	0.081	5.41	0.083	ND	0.083	ND	0.083
Aroclor-1254	ND	0.093	ND	0.092	ND	0.081	ND	0.083	ND	0.083	ND	0.083
Aroclor-1260	ND	0.093	ND	0.092	ND	0.081	ND	0.083	ND	0.083	ND	0.083
Aroclor-1262	ND	0.093	ND	0.092	ND	0.081	ND	0.083	ND	0.083	ND	0.083
Aroclor-1268	ND	0.093	ND	0.092	ND	0.081	ND	0.083	ND	0.083	ND	0.083
PCBs	40.4		ND		0.268		5.41		ND		ND	
<b>PARAMETER(Units)</b>	<b>Lab ID:</b> 10707-017	<b>Lab ID:</b> 10707-018	<b>Lab ID:</b> 10707-019									
	<b>Client ID:</b> AA-45 (1.0-2.0)	<b>Client ID:</b> Z-45R (0-1.0)	<b>Client ID:</b> Z-45R (1.0-2.0)									
	<b>Depth:</b> 1/2	<b>Depth:</b> 0/1	<b>Depth:</b> 1/2									
	<b>Matrix:</b> Soil	<b>Matrix:</b> Soil	<b>Matrix:</b> Soil									
	<b>Sampled Date:</b> 10/28/13	<b>Sampled Date:</b> 10/28/13	<b>Sampled Date:</b> 10/28/13									
<b>PARAMETER(Units)</b>	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
<b>PCB's (Units)</b>	<i>(mg/Kg-ppm)</i>			<i>(mg/Kg-ppm)</i>			<i>(mg/Kg-ppm)</i>			<i>(mg/Kg-ppm)</i>		
Aroclor-1016	ND	0.104	ND	0.084	ND	0.085	ND	0.085	ND	0.085	ND	0.085
Aroclor-1221	ND	0.104	ND	0.084	ND	0.085	ND	0.085	ND	0.085	ND	0.085
Aroclor-1232	ND	0.104	ND	0.084	ND	0.085	ND	0.085	ND	0.085	ND	0.085
Aroclor-1242	ND	0.104	ND	0.084	ND	0.085	ND	0.085	ND	0.085	ND	0.085
Aroclor-1248	0.931	0.104	4.92	0.084	0.400	0.085	ND	0.085	ND	0.085	ND	0.085
Aroclor-1254	ND	0.104	ND	0.084	ND	0.085	ND	0.085	ND	0.085	ND	0.085
Aroclor-1260	ND	0.104	1.19	0.084	ND	0.085	ND	0.085	ND	0.085	ND	0.085
Aroclor-1262	ND	0.104	ND	0.084	ND	0.085	ND	0.085	ND	0.085	ND	0.085
Aroclor-1268	ND	0.104	ND	0.084	ND	0.085	ND	0.085	ND	0.085	ND	0.085
PCBs	0.931		6.11		0.400		ND		ND		ND	

ND = Analyzed for but Not Detected at the MDL

J = The concentration was detected at a value below the RL and above the MDL

D = The compound was reported from the Diluted analysis

E13-10707 0008

## **ANALYTICAL RESULTS**

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**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10707-001  
Client ID: P-48N\_(0  
Date Received: 10/28/2013  
Date Extracted: 10/29/2013  
Date Analyzed: 10/30/2013  
Data file: R5073.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.53g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 1  
% Moisture: 64.7

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.102	0.041
Aroclor-1221	ND		0.102	0.041
Aroclor-1232	ND		0.102	0.041
Aroclor-1242	ND		0.102	0.041
Aroclor-1248	1.82		0.102	0.041
Aroclor-1254	ND		0.102	0.041
Aroclor-1260	ND		0.102	0.041
Aroclor-1262	ND		0.102	0.041
Aroclor-1268	ND		0.102	0.041
PCBs	1.82		0.102	0.041

D --- Dilution Performed

J --- Value Less than RL &amp; great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10707-002  
Client ID: P-48N\_(1)  
Date Received: 10/28/2013  
Date Extracted: 10/29/2013  
Date Analyzed: 10/30/2013  
Data file: R5074.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.09g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 1  
% Moisture: 83.7

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.241	0.096
Aroclor-1221	ND		0.241	0.096
Aroclor-1232	ND		0.241	0.096
Aroclor-1242	ND		0.241	0.096
Aroclor-1248	0.499		0.241	0.096
Aroclor-1254	ND		0.241	0.096
Aroclor-1260	ND		0.241	0.096
Aroclor-1262	ND		0.241	0.096
Aroclor-1268	ND		0.241	0.096
PCBs	0.499		0.241	0.096

D --- Dilution Performed

J --- Value Less than RL &amp; great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10707-003  
Client ID: W-43\_(3.  
Date Received: 10/28/2013  
Date Extracted: 10/29/2013  
Date Analyzed: 10/30/2013  
Data file: R5075.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.49g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 1  
% Moisture: 76.0

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.152	0.061
Aroclor-1221	ND		0.152	0.061
Aroclor-1232	ND		0.152	0.061
Aroclor-1242	ND		0.152	0.061
Aroclor-1248	1.10		0.152	0.061
Aroclor-1254	ND		0.152	0.061
Aroclor-1260	0.894		0.152	0.061
Aroclor-1262	ND		0.152	0.061
Aroclor-1268	ND		0.152	0.061
PCBs	1.99		0.152	0.061

D --- Dilution Performed

J --- Value Less than RL &amp; great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10707-004  
Client ID: W-43\_(4.  
Date Received: 10/28/2013  
Date Extracted: 10/29/2013  
Date Analyzed: 10/30/2013  
Data file: R5076.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.11g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 1  
% Moisture: 31.0

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.057	0.023
Aroclor-1221	ND		0.057	0.023
Aroclor-1232	ND		0.057	0.023
Aroclor-1242	ND		0.057	0.023
Aroclor-1248	0.051	J	0.057	0.023
Aroclor-1254	ND		0.057	0.023
Aroclor-1260	0.051	J	0.057	0.023
Aroclor-1262	ND		0.057	0.023
Aroclor-1268	ND		0.057	0.023
PCBs	0.102	J	0.057	0.023

D --- Dilution Performed

J --- Value Less than RL &amp; great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10707-005  
Client ID: W-43\_(5.  
Date Received: 10/28/2013  
Date Extracted: 10/29/2013  
Date Analyzed: 10/30/2013  
Data file: R5077.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.50g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 1  
% Moisture: 20.7

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.046	0.018
Aroclor-1221	ND		0.046	0.018
Aroclor-1232	ND		0.046	0.018
Aroclor-1242	ND		0.046	0.018
Aroclor-1248	ND		0.046	0.018
Aroclor-1254	ND		0.046	0.018
Aroclor-1260	ND		0.046	0.018
Aroclor-1262	ND		0.046	0.018
Aroclor-1268	ND		0.046	0.018
PCBs	ND		0.046	0.018

D --- Dilution Performed

J --- Value Less than RL & great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10707-006  
Client ID: W-43\_(6.  
Date Received: 10/28/2013  
Date Extracted: 10/29/2013  
Date Analyzed: 10/30/2013  
Data file: R5070.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.20g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 1  
% Moisture: 25.8

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.052	0.021
Aroclor-1221	ND		0.052	0.021
Aroclor-1232	ND		0.052	0.021
Aroclor-1242	ND		0.052	0.021
Aroclor-1248	0.141		0.052	0.021
Aroclor-1254	ND		0.052	0.021
Aroclor-1260	ND		0.052	0.021
Aroclor-1262	ND		0.052	0.021
Aroclor-1268	ND		0.052	0.021
PCBs	0.141		0.052	0.021

D --- Dilution Performed

J --- Value Less than RL &amp; great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10707-007  
Client ID: AA-48\_0  
Date Received: 10/28/2013  
Date Extracted: 10/29/2013  
Date Analyzed: 10/30/2013  
Data file: R5078.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.17g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 1  
% Moisture: 77.9

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.175	0.070
Aroclor-1221	ND		0.175	0.070
Aroclor-1232	ND		0.175	0.070
Aroclor-1242	ND		0.175	0.070
Aroclor-1248	2.12		0.175	0.070
Aroclor-1254	ND		0.175	0.070
Aroclor-1260	ND		0.175	0.070
Aroclor-1262	ND		0.175	0.070
Aroclor-1268	ND		0.175	0.070
PCBs	2.12		0.175	0.070

D --- Dilution Performed

J --- Value Less than RL &amp; great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10707-008  
Client ID: AA-48\_(1  
Date Received: 10/28/2013  
Date Extracted: 10/29/2013  
Date Analyzed: 10/30/2013  
Data file: R5079.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.91g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 1  
% Moisture: 86.6

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.253	0.101
Aroclor-1221	ND		0.253	0.101
Aroclor-1232	ND		0.253	0.101
Aroclor-1242	ND		0.253	0.101
Aroclor-1248	0.644		0.253	0.101
Aroclor-1254	ND		0.253	0.101
Aroclor-1260	ND		0.253	0.101
Aroclor-1262	ND		0.253	0.101
Aroclor-1268	ND		0.253	0.101
PCBs	0.644		0.253	0.101

D --- Dilution Performed

J --- Value Less than RL &amp; great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10707-009  
Client ID: BB-48\_0  
Date Received: 10/28/2013  
Date Extracted: 10/29/2013  
Date Analyzed: 10/30/2013  
Data file: R5081.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.81g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 1  
% Moisture: 56.8

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.080	0.032
Aroclor-1221	ND		0.080	0.032
Aroclor-1232	ND		0.080	0.032
Aroclor-1242	ND		0.080	0.032
Aroclor-1248	16.8	E	0.080	0.032
Aroclor-1254	ND		0.080	0.032
Aroclor-1260	ND		0.080	0.032
Aroclor-1262	ND		0.080	0.032
Aroclor-1268	ND		0.080	0.032
PCBs	16.8	E	0.080	0.032

D --- Dilution Performed

J --- Value Less than RL & great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10707-009DL  
Client ID: BB-48\_(0  
Date Received: 10/28/2013  
Date Extracted: 10/29/2013  
Date Analyzed: 10/31/2013  
Data file: R5095.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.81g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 5  
% Moisture: 56.8

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.398	0.159
Aroclor-1221	ND		0.398	0.159
Aroclor-1232	ND		0.398	0.159
Aroclor-1242	ND		0.398	0.159
Aroclor-1248	21.0	D	0.398	0.159
Aroclor-1254	ND		0.398	0.159
Aroclor-1260	ND		0.398	0.159
Aroclor-1262	ND		0.398	0.159
Aroclor-1268	ND		0.398	0.159
PCBs	21.0	D	0.398	0.159

D --- Dilution Performed

J --- Value Less than RL & great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10707-010  
Client ID: BB-48\_(1)  
Date Received: 10/28/2013  
Date Extracted: 10/29/2013  
Date Analyzed: 10/30/2013  
Data file: R5082.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.70g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 1  
% Moisture: 45.8

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.065	0.026
Aroclor-1221	ND		0.065	0.026
Aroclor-1232	ND		0.065	0.026
Aroclor-1242	ND		0.065	0.026
Aroclor-1248	17.3	E	0.065	0.026
Aroclor-1254	ND		0.065	0.026
Aroclor-1260	ND		0.065	0.026
Aroclor-1262	ND		0.065	0.026
Aroclor-1268	ND		0.065	0.026
PCBs	17.3	E	0.065	0.026

D --- Dilution Performed

J --- Value Less than RL &amp; great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10707-010DL  
Client ID: BB-48\_(1  
Date Received: 10/28/2013  
Date Extracted: 10/29/2013  
Date Analyzed: 10/31/2013  
Data file: R5096.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.70g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 5  
% Moisture: 45.8

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.324	0.129
Aroclor-1221	ND		0.324	0.129
Aroclor-1232	ND		0.324	0.129
Aroclor-1242	ND		0.324	0.129
Aroclor-1248	21.3	D	0.324	0.129
Aroclor-1254	ND		0.324	0.129
Aroclor-1260	ND		0.324	0.129
Aroclor-1262	ND		0.324	0.129
Aroclor-1268	ND		0.324	0.129
PCBs	21.3	D	0.324	0.129

D — Dilution Performed

J --- Value Less than RL & great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10707-011  
Client ID: CC-46S\_(  
Date Received: 10/28/2013  
Date Extracted: 10/29/2013  
Date Analyzed: 10/30/2013  
Data file: R5083.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.34g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 1  
% Moisture: 88.8

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.334	0.134
Aroclor-1221	ND		0.334	0.134
Aroclor-1232	ND		0.334	0.134
Aroclor-1242	ND		0.334	0.134
Aroclor-1248	8.62		0.334	0.134
Aroclor-1254	ND		0.334	0.134
Aroclor-1260	ND		0.334	0.134
Aroclor-1262	ND		0.334	0.134
Aroclor-1268	ND		0.334	0.134
PCBs	8.62		0.334	0.134

D --- Dilution Performed

J --- Value Less than RL &amp; great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10707-012  
Client ID: CC-46S\_(  
Date Received: 10/28/2013  
Date Extracted: 10/29/2013  
Date Analyzed: 10/30/2013  
Data file: R5084.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.61g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 1  
% Moisture: 62.3

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.095	0.038
Aroclor-1221	ND		0.095	0.038
Aroclor-1232	ND		0.095	0.038
Aroclor-1242	ND		0.095	0.038
Aroclor-1248	ND		0.095	0.038
Aroclor-1254	ND		0.095	0.038
Aroclor-1260	ND		0.095	0.038
Aroclor-1262	ND		0.095	0.038
Aroclor-1268	ND		0.095	0.038
PCBs	ND		0.095	0.038

D --- Dilution Performed

J --- Value Less than RL &amp; great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10707-013  
Client ID: AA-45N\_(  
Date Received: 10/28/2013  
Date Extracted: 10/29/2013  
Date Analyzed: 10/30/2013  
Data file: R5085.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.01g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 1  
% Moisture: 82.8

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.232	0.093
Aroclor-1221	ND		0.232	0.093
Aroclor-1232	ND		0.232	0.093
Aroclor-1242	ND		0.232	0.093
Aroclor-1248	40.4		0.232	0.093
Aroclor-1254	ND		0.232	0.093
Aroclor-1260	ND		0.232	0.093
Aroclor-1262	ND		0.232	0.093
Aroclor-1268	ND		0.232	0.093
PCBs	40.4		0.232	0.093

D --- Dilution Performed

J --- Value Less than RL &amp; great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10707-014  
Client ID: AA-45N\_(  
Date Received: 10/28/2013  
Date Extracted: 10/29/2013  
Date Analyzed: 10/30/2013  
Data file: R5086.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.70g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 1  
% Moisture: 84.7

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.229	0.092
Aroclor-1221	ND		0.229	0.092
Aroclor-1232	ND		0.229	0.092
Aroclor-1242	ND		0.229	0.092
Aroclor-1248	ND		0.229	0.092
Aroclor-1254	ND		0.229	0.092
Aroclor-1260	ND		0.229	0.092
Aroclor-1262	ND		0.229	0.092
Aroclor-1268	ND		0.229	0.092
PCBs	ND		0.229	0.092

D --- Dilution Performed

J --- Value Less than RL &amp; great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C — Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10707-015  
Client ID: AA-45N\_(  
Date Received: 10/28/2013  
Date Extracted: 10/29/2013  
Date Analyzed: 10/30/2013  
Data file: R5087.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.24g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 1  
% Moisture: 81.1

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.202	0.081
Aroclor-1221	ND		0.202	0.081
Aroclor-1232	ND		0.202	0.081
Aroclor-1242	ND		0.202	0.081
Aroclor-1248	0.268		0.202	0.081
Aroclor-1254	ND		0.202	0.081
Aroclor-1260	ND		0.202	0.081
Aroclor-1262	ND		0.202	0.081
Aroclor-1268	ND		0.202	0.081
PCBs	0.268		0.202	0.081

D --- Dilution Performed

J --- Value Less than RL &amp; great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10707-016  
Client ID: AA-45\_0  
Date Received: 10/28/2013  
Date Extracted: 10/29/2013  
Date Analyzed: 10/30/2013  
Data file: R5088.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.12g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 1  
% Moisture: 81.1

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.207	0.083
Aroclor-1221	ND		0.207	0.083
Aroclor-1232	ND		0.207	0.083
Aroclor-1242	ND		0.207	0.083
Aroclor-1248	5.41		0.207	0.083
Aroclor-1254	ND		0.207	0.083
Aroclor-1260	ND		0.207	0.083
Aroclor-1262	ND		0.207	0.083
Aroclor-1268	ND		0.207	0.083
PCBs	5.41		0.207	0.083

D --- Dilution Performed

J --- Value Less than RL &amp; great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10707-017  
Client ID: AA-45\_(1  
Date Received: 10/28/2013  
Date Extracted: 10/29/2013  
Date Analyzed: 10/30/2013  
Data file: R5089.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.28g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 1  
% Moisture: 85.4

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.259	0.104
Aroclor-1221	ND		0.259	0.104
Aroclor-1232	ND		0.259	0.104
Aroclor-1242	ND		0.259	0.104
Aroclor-1248	0.931		0.259	0.104
Aroclor-1254	ND		0.259	0.104
Aroclor-1260	ND		0.259	0.104
Aroclor-1262	ND		0.259	0.104
Aroclor-1268	ND		0.259	0.104
PCBs	0.931		0.259	0.104

D --- Dilution Performed

J --- Value Less than RL &amp; great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10707-018  
Client ID: Z-45\_(0-  
Date Received: 10/28/2013  
Date Extracted: 10/29/2013  
Date Analyzed: 10/30/2013  
Data file: R5090.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.71g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 1  
% Moisture: 83.4

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.211	0.084
Aroclor-1221	ND		0.211	0.084
Aroclor-1232	ND		0.211	0.084
Aroclor-1242	ND		0.211	0.084
Aroclor-1248	4.92		0.211	0.084
Aroclor-1254	ND		0.211	0.084
Aroclor-1260	1.19		0.211	0.084
Aroclor-1262	ND		0.211	0.084
Aroclor-1268	ND		0.211	0.084
PCBs	6.11		0.211	0.084

D --- Dilution Performed

J --- Value Less than RL & great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10707-019  
Client ID: Z-45\_(1.  
Date Received: 10/28/2013  
Date Extracted: 10/29/2013  
Date Analyzed: 10/30/2013  
Data file: R5091.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.37g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 1  
% Moisture: 82.5

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.213	0.085
Aroclor-1221	ND		0.213	0.085
Aroclor-1232	ND		0.213	0.085
Aroclor-1242	ND		0.213	0.085
Aroclor-1248	0.400		0.213	0.085
Aroclor-1254	ND		0.213	0.085
Aroclor-1260	ND		0.213	0.085
Aroclor-1262	ND		0.213	0.085
Aroclor-1268	ND		0.213	0.085
PCBs	0.400		0.213	0.085

D --- Dilution Performed

J --- Value Less than RL &amp; great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10707-020

Client ID: FB-27

Date Received: 10/28/2013

Date Extracted: 11/01/2013

Date Analyzed: 11/01/2013

Data file: Y2700.D

GC Column: DB-5/DB1701P

Sample wt/vol: 1000ml

Matrix-Units: Aqueous-mg/L (ppm)

Dilution Factor: 1

% Moisture: 100

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.00005	0.00002
Aroclor-1221	ND		0.00005	0.00002
Aroclor-1232	ND		0.00005	0.00002
Aroclor-1242	ND		0.00005	0.00002
Aroclor-1248	ND		0.00005	0.00002
Aroclor-1254	ND		0.00005	0.00002
Aroclor-1260	ND		0.00005	0.00002
Aroclor-1262	ND		0.00005	0.00002
Aroclor-1268	ND		0.00005	0.00002
PCBs	ND		0.00005	0.00002

D --- Dilution Performed

B --- Compound detected in Blank

J --- Value Less than RL &amp; great than MDL

C --- Common laboratory contamination

E --- Exceeds upper level of Calibration curve

**PCB DATA**

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E13-10707 0032

**PCB QC SUMMARY**

E13-10707 0033

## PCB SURROGATE PERCENT RECOVERY SUMMARY

Date Analyzed: 10/22/2013

Client ID	Lab	Sample ID	Matrix	TCMX 1		DCB 1		TCMX 2		DCB 2	
				% rec	#	% rec	#	% rec	#	% rec	#
PCB		BLKA131021-17	AQUEOUS	88		79		95		90	
PCB		LCSA131021-17	AQUEOUS	85		85		90		88	
OUTFALL		E13-10256-001	WASTE WATER	71		69		75		100	
FB-21		E13-10192-011	AQUEOUS	88		75		94		88	
FB-22		E13-10227-014	AQUEOUS	91		75		97		103	
PCB		E13-10256-001MS	WASTE WATER	78		85		84		103	
PCB		E13-10256-001MS*	WASTE WATER	74		74		80		93	

Surrogate QC Limits

TCMX = Tetrachloro-m-xylene

Soil

Aqueous

30-150

30-150

DCB = Decachlorobiphenyl

30-150

30-150

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

# PCB SURROGATE PERCENT RECOVERY SUMMARY

Date Analyzed: 11/01/2013

Client ID	Sample ID	Matrix	TCMX 1		DCB 1		TCMX 2		DCB 2	
			% rec	#	% rec	#	% rec	#	% rec	#
PCB	BLKA131101-10	AQUEOUS	88		52		80		62	
PCB	LCSA131101-10	AQUEOUS	76		46		69		54	
FB-10281	E13-10721-027	AQUEOUS	81		49		75		58	
FB-26	E13-10679-016	AQUEOUS	80		47		73		63	
FB-27	E13-10707-020	AQUEOUS	82		50		75		59	
FB-28	E13-10748-014	AQUEOUS	77		48		71		56	
FB	E13-10877-007	AQUEOUS	74		46		68		54	
FB-29	E13-10796-024	AQUEOUS	80		50		73		66	
FB-30	E13-10867-016	AQUEOUS	76		48		70		56	

Surrogate QC Limits

TCMX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

Soil

30-150

Aqueous/Leachate

30-150

30-150

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

**PCB SURROGATE PERCENT RECOVERY SUMMARY**

Date Analyzed: 10/30/2013

Client ID	Lab	Sample ID	Matrix	TCMX 1		DCB 1		TCMX 2		DCB 2	
				% rec	#	% rec	#	% rec	#	% rec	#
PCB		BLKS131029-14	SOIL	98		99		85		72	
PCB		LCSS131029-14	SOIL	99		85		85		72	
W-43_(6.		E13-10707-006	SOIL	104		88		89		83	
PCB		10707-006MS	SOIL	108		100		92		81	
PCB		10707-006MSD	SOIL	108		99		92		82	
P-48N_(0		E13-10707-001	SOIL	121		103		99		94	
P-48N_(1		E13-10707-002	SOIL	129		116		105		86	
W-43_(3.		E13-10707-003	SOIL	118		93		100		85	
W-43_(4.		E13-10707-004	SOIL	107		94		91		78	
W-43_(5.		E13-10707-005	SOIL	104		88		89		69	
AA-48_(0		E13-10707-007	SOIL	129		108		111		98	
AA-48_(1		E13-10707-008	SOIL	137		121		118		96	
BB-48_(0		E13-10707-009	SOIL	115		115		81		119	
BB-48_(1		E13-10707-010	SOIL	102		99		77		96	
CC-46S_(		E13-10707-011	SOIL	127		112		109		113	
CC-46S_(		E13-10707-012	SOIL	121		109		103		88	
AA-45N_(		E13-10707-013	SOIL	123		98		102		129	
AA-45N_(		E13-10707-014	SOIL	128		119		113		100	
AA-45N_(		E13-10707-015	SOIL	130		116		112		86	
AA-45_(0		E13-10707-016	SOIL	129		107		109		90	
AA-45_(1		E13-10707-017	SOIL	131		119		114		101	
Z-45_(0-		E13-10707-018	SOIL	130		113		112		92	
Z-45_(1.		E13-10707-019	SOIL	132		116		113		88	
S-12		E13-10681-006	SOIL	99		89		83		69	

Surrogate QC Limits

Soil      Aqueous/Leachate

TCMX = Tetrachloro-m-xylene

30-150      30-150

DCB = Decachlorobiphenyl

30-150      30-150

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

## PCB SURROGATE PERCENT RECOVERY SUMMARY

Date Analyzed: 10/30/2013

Client ID	Sample ID	Matrix	TCMX 1		DCB 1		TCMX 2		DCB 2	
			% rec	#	% rec	#	% rec	#	% rec	#
PCB	BLKS131029-14	SOIL	98		99		85		72	
BB-48_(0	E13-10707-009DL	SOIL	136		124		102		104	
BB-48_(1	E13-10707-010DL	SOIL	125		129		95		124	

Surrogate QC Limits

Soil      Aqueous/Leachate

TCMX = Tetrachloro-m-xylene

30-150      30-150

DCB = Decachlorobiphenyl

30-150      30-150

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

# AQUEOUS PCB LCS ACCURACY RECOVERY

Matrix spike Lab sample ID: LCSA131101-10

Compound	SPIKE ADDED (ug/L)	SAMPLE CONC. (ug/L)	MS CONC. (ug/L)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	384.3	77	40 - 140
Aroclor-1260	500.0	0.0	383.3	77	40 - 140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

NC Non calculable

Spike Recovery: 0 out of 2 outside limits

# SOIL PCB LCS ACCURACY RECOVERY

Matrix spike Lab sample ID:

LCSS131029-14

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	398.4	80	40 - 140
Aroclor-1260	500.0	0.0	415.7	83	40 - 140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

NC Non calculable

Spike Recovery: 0 out of 2 outside limits

# AQUEOUS PCB MS/MSD ACCURACY RECOVERY

Matrix spike Lab sample ID: E13-10256-001

Compound	SPIKE ADDED (ug/L)	SAMPLE CONC. (ug/L)	MS CONC. (ug/L)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	412.4	82	40 - 140
Aroclor-1260	500.0	0.0	447.4	89	40 - 140

Compound	SAMPLE CONC. (ug/L)	MSD CONC. (ug/L)	MSD % # REC	% RPD #	QC LIMITS RPD	REC.
Aroclor-1016	0.0	383.8	77	6	50	40 - 140
Aroclor-1260	0.0	426.8	85	5	50	40 - 140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

NC Non calculable

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

**SOIL PCB MS/MSD ACCURACY RECOVERY**

Matrix spike Lab sample ID:

E13-10707-006

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	448.3	90	40 - 140
Aroclor-1260	500.0	0.0	461.6	92	40 - 140

Compound	SAMPLE CONC. (ug/Kg)	MSD CONC. (ug/Kg)	MSD #	% REC	% RPD #	QC LIMITS RPD	REC.
Aroclor-1016	0.0	440.8	88	2	50	40 - 140	
Aroclor-1260	0.0	458.4	92	0	50	40 - 140	

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

NC Non calculable

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

**PCB METHOD BLANK SUMMARY**

Lab File ID: Y2409.D

Instrument ID: GC-Y

Date Extracted: 10/21/2013

Matrix: AQUEOUS

Date Analyzed: 10/22/2013

Time Analyzed: 21:25

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS or LCSD, MS or MSD:

<b>Client ID</b>	<b>Lab Sample ID</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>
PCB	LCSA131021-17	10/22/2013	21:43
OUTFALL	E13-10256-001	10/22/2013	22:00
FB-21	E13-10192-011	10/22/2013	22:17
FB-22	E13-10227-014	10/22/2013	22:35
PCB	E13-10256-001MS	10/22/2013	22:52
PCB	E13-10256-001MSD	10/22/2013	23:09

**PCB METHOD BLANK SUMMARY**

Lab File ID: Y2696.D

Instrument ID: GC-Y

Date Extracted: 11/01/2013

Matrix: AQUEOUS

Date Analyzed: 11/01/2013

Time Analyzed: 17:36

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS or LCSD, MS or MSD:

<b>Client ID</b>	<b>Lab Sample ID</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>
PCB	LCSA131101-10	11/01/2013	17:54
FB-10281	E13-10721-027	11/01/2013	18:11
FB-26	E13-10679-016	11/01/2013	18:28
FB-27	E13-10707-020	11/01/2013	18:46
FB-28	E13-10748-014	11/01/2013	19:03
FB	E13-10877-007	11/01/2013	19:21
FB-29	E13-10796-024	11/01/2013	19:38
FB-30	E13-10867-016	11/01/2013	19:55

**PCB METHOD BLANK SUMMARY**

Lab File ID: R5068.D      Instrument ID: GC-R

Date Extracted: 10/29/2013      Matrix: SOIL

Date Analyzed: 10/30/2013      Time Analyzed: 13:31

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS or LCSD, MS or MSD:

<b>Client ID</b>	<b>Lab Sample ID</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>
PCB	LCSS131029-14	10/30/2013	13:48
W-43_(6.	E13-10707-006	10/30/2013	14:18
PCB	10707-006MS	10/30/2013	14:35
PCB	10707-006MSD	10/30/2013	14:53
P-48N_(0	E13-10707-001	10/30/2013	15:10
P-48N_(1	E13-10707-002	10/30/2013	15:28
W-43_(3.	E13-10707-003	10/30/2013	15:45
W-43_(4.	E13-10707-004	10/30/2013	16:03
W-43_(5.	E13-10707-005	10/30/2013	16:20
AA-48_(0	E13-10707-007	10/30/2013	16:38
AA-48_(1	E13-10707-008	10/30/2013	16:55
BB-48_(0	E13-10707-009	10/30/2013	17:30
BB-48_(1	E13-10707-010	10/30/2013	18:05
CC-46S_(	E13-10707-011	10/30/2013	18:40
CC-46S_(	E13-10707-012	10/30/2013	18:57
AA-45N_(	E13-10707-013	10/30/2013	19:15
AA-45N_(	E13-10707-014	10/30/2013	19:50
AA-45N_(	E13-10707-015	10/30/2013	20:07
AA-45_(0	E13-10707-016	10/30/2013	20:25
AA-45_(1	E13-10707-017	10/30/2013	20:42
Z-45_(0-	E13-10707-018	10/30/2013	21:00
Z-45_(1.	E13-10707-019	10/30/2013	21:17
S-12	E13-10681-006	10/30/2013	21:34

**PCB METHOD BLANK SUMMARY**

Lab File ID: R5068.D

Instrument ID: GC-R

Date Extracted: 10/29/2013

Matrix: SOIL

Date Analyzed: 10/30/2013

Time Analyzed: 13:31

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS or LCSD, MS or MSD:

<b>Client ID</b>	<b>Lab Sample ID</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>
BB-48_(0	E13-10707-009DL	10/31/2013	09:44
BB-48_(1	E13-10707-010DL	10/31/2013	10:02

# AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013

Instrument ID: GC-Y  
GC Column (1st): DB-5

Data File: Y1850.D Y1849.D Y1848.D Y1847.D Y1846.D

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1016	3.23	3.23	3.23	3.23	3.23	3.23	3.16	3.30
Aroclor-1016 {2}	4.05	4.05	4.05	4.05	4.05	4.05	3.98	4.12
Aroclor-1016 {3}	4.60	4.60	4.60	4.60	4.60	4.60	4.53	4.67
Aroclor-1016 {4}	5.10	5.10	5.10	5.10	5.10	5.10	5.03	5.17
Aroclor-1016 {5}	5.49	5.49	5.49	5.49	5.49	5.49	5.42	5.56
Aroclor-1221			2.14				2.07	2.21
Aroclor-1221 {2}			3.02				2.95	3.09
Aroclor-1221 {3}			3.15				3.08	3.22
Aroclor-1221 {4}			3.22				3.15	3.29
Aroclor-1221 {5}			3.81				3.74	3.88
Aroclor-1232			3.23				3.16	3.30
Aroclor-1232 {2}			4.05				3.98	4.12
Aroclor-1232 {3}			4.71				4.64	4.78
Aroclor-1232 {4}			5.30				5.23	5.37
Aroclor-1232 {5}			5.49				5.42	5.56
Aroclor-1242			4.05				3.98	4.12
Aroclor-1242 {2}			4.98				4.91	5.05
Aroclor-1242 {3}			5.30				5.23	5.37
Aroclor-1242 {4}			5.99				5.92	6.06
Aroclor-1242 {5}			6.26				6.19	6.33
Aroclor-1248			4.45				4.37	4.53
Aroclor-1248 {2}			4.98				4.90	5.06
Aroclor-1248 {3}			5.30				5.22	5.38
Aroclor-1248 {4}			5.99				5.91	6.07
Aroclor-1248 {5}			6.27				6.19	6.35
Aroclor-1254			6.39				6.31	6.47
Aroclor-1254 {2}			6.82				6.74	6.90
Aroclor-1254 {3}			6.99				6.90	7.08
Aroclor-1254 {4}			7.42				7.33	7.51
Aroclor-1254 {5}			8.26				8.17	8.35
Aroclor-1260	8.26	8.26	8.26	8.26	8.26	8.26	7.36	9.16
Aroclor-1260 {2}	8.94	8.94	8.94	8.94	8.93	8.94	8.04	9.84
Aroclor-1260 {3}	9.41	9.41	9.41	9.41	9.41	9.41	8.51	10.31
Aroclor-1260 {4}	9.89	9.89	9.89	9.89	9.89	9.89	8.99	10.79
Aroclor-1260 {5}	10.95	10.95	10.95	10.95	10.95	10.95	10.05	11.85

# AROCLOL INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013      Instrument ID: GC-Y  
 GC Column (1st): DB-5

Data File: Y1850.D Y1849.D Y1848.D Y1847.D Y1846.D

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1016	464323	441679	382895	349177	333589	394332	14.46
Aroclor-1016 {2}	631313	643566	521731	477189	458454	546451	15.79
Aroclor-1016 {3}	806143	774449	662509	606621	589177	687780	14.26
Aroclor-1016 {4}	363540	363516	332688	305606	289774	331025	10.09
Aroclor-1016 {5}	628860	642038	551930	503774	487757	562872	12.52
Aroclor-1221			199877				
Aroclor-1221 {2}			313557				
Aroclor-1221 {3}			198732				
Aroclor-1221 {4}			681302				
Aroclor-1221 {5}			164392				
Aroclor-1232			508390				
Aroclor-1232 {2}			304333				
Aroclor-1232 {3}			272852				
Aroclor-1232 {4}			292921				
Aroclor-1232 {5}			379208				
Aroclor-1242			445331				
Aroclor-1242 {2}			289404				
Aroclor-1242 {3}			394283				
Aroclor-1242 {4}			595594				
Aroclor-1242 {5}			525307				
Aroclor-1248			1072563				
Aroclor-1248 {2}			618287				
Aroclor-1248 {3}			795414				
Aroclor-1248 {4}			1263310				
Aroclor-1248 {5}			998553				
Aroclor-1254			1250957				
Aroclor-1254 {2}			821044				
Aroclor-1254 {3}			1480779				
Aroclor-1254 {4}			1606933				
Aroclor-1254 {5}			1429697				
Aroclor-1260	1799563	1887490	1561779	1407648	1377152	1606726	14.27
Aroclor-1260 {2}	884011	896189	732678	641350	641368	759119	16.51
Aroclor-1260 {3}	2064481	2110924	1815054	1604501	1536563	1826305	14.25
Aroclor-1260 {4}	982911	1147466	964107	838195	828743	952284	13.64
Aroclor-1260 {5}	415694	477377	462681	369882	339327	412992	14.28
Average %RSD						14.01	

# AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013

Instrument ID: GC-Y  
GC Column (2nd): DB-1701P

Data File: Y1850.C Y1849.C Y1848.C Y1847.C Y1846.C

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1016	3.76	3.76	3.76	3.76	3.76	3.76	3.69	3.83
Aroclor-1016 {2}	4.36	4.36	4.36	4.36	4.36	4.36	4.29	4.43
Aroclor-1016 {3}	5.11	5.11	5.11	5.11	5.11	5.11	5.04	5.18
Aroclor-1016 {4}	5.32	5.32	5.32	5.32	5.32	5.32	5.25	5.39
Aroclor-1016 {5}	5.49	5.49	5.49	5.49	5.49	5.49	5.42	5.56
Aroclor-1221			2.44				2.37	2.51
Aroclor-1221 {2}			3.44				3.37	3.51
Aroclor-1221 {3}			3.67				3.60	3.74
Aroclor-1221 {4}			3.77				3.70	3.84
Aroclor-1221 {5}			5.11				5.04	5.18
Aroclor-1232			3.76				3.69	3.83
Aroclor-1232 {2}			4.74				4.67	4.81
Aroclor-1232 {3}			5.32				5.25	5.39
Aroclor-1232 {4}			5.49				5.42	5.56
Aroclor-1232 {5}			6.09				6.02	6.16
Aroclor-1242			4.74				4.67	4.81
Aroclor-1242 {2}			5.49				5.42	5.56
Aroclor-1242 {3}			6.09				6.02	6.16
Aroclor-1242 {4}			6.24				6.17	6.31
Aroclor-1242 {5}			6.79				6.72	6.86
Aroclor-1248			5.11				5.03	5.19
Aroclor-1248 {2}			5.69				5.61	5.77
Aroclor-1248 {3}			6.09				6.01	6.17
Aroclor-1248 {4}			6.24				6.16	6.32
Aroclor-1248 {5}			6.59				6.51	6.67
Aroclor-1254			7.09				7.01	7.17
Aroclor-1254 {2}			7.67				7.59	7.75
Aroclor-1254 {3}			8.29				8.20	8.38
Aroclor-1254 {4}			8.51				8.42	8.60
Aroclor-1254 {5}			9.10				9.01	9.19
Aroclor-1260	7.85	7.85	7.85	7.85	7.85	7.85	6.95	8.75
Aroclor-1260 {2}	8.11	8.11	8.11	8.11	8.11	8.11	7.21	9.01
Aroclor-1260 {3}	9.70	9.70	9.70	9.70	9.70	9.70	8.80	10.60
Aroclor-1260 {4}	10.20	10.20	10.20	10.20	10.20	10.20	9.30	11.10
Aroclor-1260 {5}	10.79	10.79	10.79	10.79	10.79	10.79	9.89	11.69

**AROCLOR INITIAL CALIBRATION SUMMARY**

Date Analyzed: 09/25/2013

Instrument ID: GC-Y  
GC Column (2nd): DB-1701P

Data File:

Y1850.C    Y1849.C    Y1848.C    Y1847.C    Y1846.C

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1016	840261	856585	714298	646843	597927	731183	15.71
Aroclor-1016 {2}	1833596	1816776	1547682	1378645	1353928	1586125	14.54
Aroclor-1016 {3}	4371716	4236799	3569561	3258945	3150851	3717574	15.04
Aroclor-1016 {4}	1871668	1849704	1597815	1454198	1410182	1636714	13.20
Aroclor-1016 {5}	1442767	1421476	1238979	1138128	1115123	1271295	12.13
Aroclor-1221			340703				
Aroclor-1221 {2}			617655				
Aroclor-1221 {3}			417322				
Aroclor-1221 {4}			1522237				
Aroclor-1221 {5}			291032				
Aroclor-1232			973678				
Aroclor-1232 {2}			425526				
Aroclor-1232 {3}			940006				
Aroclor-1232 {4}			735287				
Aroclor-1232 {5}			1002709				
Aroclor-1242			611221				
Aroclor-1242 {2}			1032956				
Aroclor-1242 {3}			1271440				
Aroclor-1242 {4}			1106793				
Aroclor-1242 {5}			2184386				
Aroclor-1248			2396754				
Aroclor-1248 {2}			3539345				
Aroclor-1248 {3}			2550731				
Aroclor-1248 {4}			2230079				
Aroclor-1248 {5}			1294923				
Aroclor-1254			2883717				
Aroclor-1254 {2}			2180898				
Aroclor-1254 {3}			1865030				
Aroclor-1254 {4}			1138169				
Aroclor-1254 {5}			2980480				
Aroclor-1260	1380266	1597791	1348190	1285120	1250722	1372418	9.90
Aroclor-1260 {2}	2170235	2320146	1904498	1826388	1764884	1997230	11.90
Aroclor-1260 {3}	1830758	1876902	1742155	1590179	1579596	1723918	7.88
Aroclor-1260 {4}	3775292	4234437	3909868	3531301	3570473	3804274	7.51
Aroclor-1260 {5}	2569926	3071676	2828424	2567649	2559367	2719408	8.36

Average %RSD                          11.62

# AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013      Instrument ID: GC-Y  
 GC Column (1st): DB-5

Data File: Y1850.D Y1849.D Y1848.D Y1847.D Y1846.D

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1262			8.55				8.43	8.67
Aroclor-1262 {2}			9.41				9.29	9.53
Aroclor-1262 {3}			10.04				9.92	10.16
Aroclor-1262 {4}			10.13				10.01	10.25
Aroclor-1262 {5}			10.95				10.83	11.07
Aroclor-1268			10.04				9.92	10.16
Aroclor-1268 {2}			10.12				10.00	10.24
Aroclor-1268 {3}			10.59				10.47	10.71
Aroclor-1268 {4}			11.55				11.43	11.67
Aroclor-1268 {5}			12.04				11.92	12.16

GC Column (2nd): DB-1701P

Data File: Y1850.C Y1849.C Y1848.C Y1847.C Y1846.C

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1262			9.70				9.58	9.82
Aroclor-1262 {2}			10.20				10.08	10.32
Aroclor-1262 {3}			10.70				10.58	10.82
Aroclor-1262 {4}			10.79				10.67	10.91
Aroclor-1262 {5}			11.39				11.27	11.51
Aroclor-1268			10.70				10.58	10.82
Aroclor-1268 {2}			10.78				10.66	10.90
Aroclor-1268 {3}			11.04				10.92	11.16
Aroclor-1268 {4}			12.25				12.13	12.37
Aroclor-1268 {5}			12.48				12.36	12.60

# AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013      Instrument ID: GC-Y  
 GC Column (1st): DB-5

Data File: Y1850.D Y1849.D Y1848.D Y1847.D Y1846.D

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1262			1292916				
Aroclor-1262 {2}			2408782				
Aroclor-1262 {3}			950819				
Aroclor-1262 {4}			1039798				
Aroclor-1262 {5}			871465				
Aroclor-1268			2329028				
Aroclor-1268 {2}			2439244				
Aroclor-1268 {3}			1975765				
Aroclor-1268 {4}			5596247				
Aroclor-1268 {5}			3165388				

GC Column (2nd): DB-1701P

Data File: Y1850.C Y1849.C Y1848.C Y1847.C Y1846.C

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1262			2532606				
Aroclor-1262 {2}			5716193				
Aroclor-1262 {3}			2058727				
Aroclor-1262 {4}			4020600				
Aroclor-1262 {5}			980018				
Aroclor-1268			5861773				
Aroclor-1268 {2}			6124826				
Aroclor-1268 {3}			5049165				
Aroclor-1268 {4}			14509441				
Aroclor-1268 {5}			8286384				

# AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/22/2013

Instrument ID: GC-Y

Data File: Y2408.D

GC Column (1st):

DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.23	3.16	3.30	394332	326823	17.12
Aroclor-1016 {2}	4.05	3.98	4.12	546451	447291	18.15
Aroclor-1016 {3}	4.60	4.53	4.67	687780	560616	18.49
Aroclor-1016 {4}	5.10	5.03	5.17	331025	292250	11.71
Aroclor-1016 {5}	5.50	5.42	5.56	562872	463278	17.69
Aroclor-1260	8.27	7.36	9.16	1606726	1321724	17.74
Aroclor-1260 {2}	8.94	8.04	9.84	759119	616407	18.80
Aroclor-1260 {3}	9.41	8.51	10.31	1826305	1544968	15.40
Aroclor-1260 {4}	9.89	8.99	10.79	952284	838008	12.00
Aroclor-1260 {5}	10.95	10.05	11.85	412992	431179	4.40

Data File: Y2408.C

GC Column (2nd):

DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.76	3.69	3.83	731183	668693	8.55
Aroclor-1016 {2}	4.36	4.29	4.43	1586125	1509293	4.84
Aroclor-1016 {3}	5.11	5.04	5.18	3717574	3393540	8.72
Aroclor-1016 {4}	5.32	5.25	5.39	1636714	1462308	10.66
Aroclor-1016 {5}	5.49	5.42	5.56	1271295	1157754	8.93
Aroclor-1260	7.85	6.95	8.75	1372418	1242036	9.50
Aroclor-1260 {2}	8.11	7.21	9.01	1997230	1806791	9.54
Aroclor-1260 {3}	9.70	8.80	10.60	1723918	1703542	1.18
Aroclor-1260 {4}	10.20	9.30	11.10	3804274	3864696	1.59
Aroclor-1260 {5}	10.79	9.89	11.69	2719408	2757074	1.39

# AROCLOL CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/23/2013

Instrument ID: GC-Y

Data File: Y2416.D

GC Column (1st): DB-5

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.23	3.16	3.30	394332	330763	16.12
Aroclor-1016 {2}	4.05	3.98	4.12	546451	453191	17.07
Aroclor-1016 {3}	4.60	4.53	4.67	687780	568120	17.40
Aroclor-1016 {4}	5.10	5.03	5.17	331025	296002	10.58
Aroclor-1016 {5}	5.50	5.42	5.56	562872	474340	15.73
Aroclor-1260	8.27	7.36	9.16	1606726	1373088	14.54
Aroclor-1260 {2}	8.94	8.04	9.84	759119	642532	15.36
Aroclor-1260 {3}	9.41	8.51	10.31	1826305	1615958	11.52
Aroclor-1260 {4}	9.89	8.99	10.79	952284	860268	9.66
Aroclor-1260 {5}	10.95	10.05	11.85	412992	396898	3.90

Data File: Y2416.C

GC Column (2nd): DB-1701P

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.76	3.69	3.83	731183	685886	6.20
Aroclor-1016 {2}	4.36	4.29	4.43	1586125	1332722	15.98
Aroclor-1016 {3}	5.11	5.04	5.18	3717574	3491473	6.08
Aroclor-1016 {4}	5.32	5.25	5.39	1636714	1508222	7.85
Aroclor-1016 {5}	5.49	5.42	5.56	1271295	1193600	6.11
Aroclor-1260	7.85	6.95	8.75	1372418	1279692	6.76
Aroclor-1260 {2}	8.10	7.21	9.01	1997230	1882484	5.75
Aroclor-1260 {3}	9.70	8.80	10.60	1723918	1810727	5.04
Aroclor-1260 {4}	10.20	9.30	11.10	3804274	4151895	9.14
Aroclor-1260 {5}	10.79	9.89	11.69	2719408	3028988	11.38

**AROCLOR INITIAL CALIBRATION SUMMARY**

Date Analyzed: 10/24/2013

Instrument ID: GC-Y  
GC Column (1st): DB-5

Data File: Y2478.D Y2477.D Y2476.D Y2475.D Y2474.D

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1016	3.22	3.22	3.22	3.22	3.22	3.22	3.15	3.29
Aroclor-1016 {2}	4.04	4.04	4.04	4.04	4.04	4.04	3.97	4.11
Aroclor-1016 {3}	4.59	4.59	4.59	4.59	4.59	4.59	4.52	4.66
Aroclor-1016 {4}	5.10	5.09	5.09	5.09	5.09	5.09	5.02	5.16
Aroclor-1016 {5}	5.48	5.48	5.49	5.49	5.49	5.48	5.41	5.55
Aroclor-1221			2.14				2.07	2.21
Aroclor-1221 {2}			3.02				2.95	3.09
Aroclor-1221 {3}			3.15				3.08	3.22
Aroclor-1221 {4}			3.22				3.15	3.29
Aroclor-1221 {5}			3.81				3.74	3.88
Aroclor-1232			3.22				3.15	3.29
Aroclor-1232 {2}			4.05				3.98	4.12
Aroclor-1232 {3}			4.71				4.64	4.78
Aroclor-1232 {4}			5.30				5.23	5.37
Aroclor-1232 {5}			5.49				5.42	5.56
Aroclor-1242			4.05				3.98	4.12
Aroclor-1242 {2}			4.98				4.91	5.05
Aroclor-1242 {3}			5.30				5.23	5.37
Aroclor-1242 {4}			5.99				5.92	6.06
Aroclor-1242 {5}			6.26				6.19	6.33
Aroclor-1248			4.44				4.36	4.52
Aroclor-1248 {2}			4.98				4.90	5.06
Aroclor-1248 {3}			5.30				5.22	5.38
Aroclor-1248 {4}			5.99				5.91	6.07
Aroclor-1248 {5}			6.26				6.18	6.34
Aroclor-1254			6.38				6.30	6.46
Aroclor-1254 {2}			6.81				6.73	6.89
Aroclor-1254 {3}			6.98				6.89	7.07
Aroclor-1254 {4}			7.42				7.33	7.51
Aroclor-1254 {5}			8.26				8.17	8.35
Aroclor-1260	8.26	8.25	8.25	8.25	8.25	8.25	7.35	9.15
Aroclor-1260 {2}	8.93	8.93	8.93	8.93	8.93	8.93	8.03	9.83
Aroclor-1260 {3}	9.40	9.40	9.40	9.40	9.40	9.40	8.50	10.30
Aroclor-1260 {4}	9.88	9.88	9.88	9.88	9.88	9.88	8.98	10.78
Aroclor-1260 {5}	10.94	10.94	10.94	10.94	10.94	10.94	10.04	11.84

**AROCLOR INITIAL CALIBRATION SUMMARY**

Date Analyzed: 10/24/2013      Instrument ID: GC-Y  
 GC Column (1st): DB-5

Data File: Y2478.D Y2477.D Y2476.D Y2475.D Y2474.D

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1016	447576	450365	388612	345786	323686	391205	14.74
Aroclor-1016 {2}	627708	605785	540310	484438	452371	542122	13.92
Aroclor-1016 {3}	874719	765872	684369	615358	580856	704235	16.86
Aroclor-1016 {4}	397732	395187	335989	294619	274788	339663	16.59
Aroclor-1016 {5}	650000	629542	566447	507766	477446	566240	13.19
Aroclor-1221			192071				
Aroclor-1221 {2}			294477				
Aroclor-1221 {3}			194494				
Aroclor-1221 {4}			645697				
Aroclor-1221 {5}			155613				
Aroclor-1232			485451				
Aroclor-1232 {2}			295113				
Aroclor-1232 {3}			259888				
Aroclor-1232 {4}			289070				
Aroclor-1232 {5}			363887				
Aroclor-1242			436017				
Aroclor-1242 {2}			286372				
Aroclor-1242 {3}			394744				
Aroclor-1242 {4}			571815				
Aroclor-1242 {5}			506345				
Aroclor-1248			1024891				
Aroclor-1248 {2}			610408				
Aroclor-1248 {3}			783514				
Aroclor-1248 {4}			1193332				
Aroclor-1248 {5}			943616				
Aroclor-1254			1201203				
Aroclor-1254 {2}			793076				
Aroclor-1254 {3}			1437056				
Aroclor-1254 {4}			1570039				
Aroclor-1254 {5}			1434237				
Aroclor-1260	2164689	1822060	1649814	1491973	1376386	1700984	18.15
Aroclor-1260 {2}	1017786	828195	794125	753368	686484	815992	15.26
Aroclor-1260 {3}	2276656	1959820	1965580	1727080	1567462	1899320	14.18
Aroclor-1260 {4}	1326111	1138653	1050773	938551	874861	1065790	16.65
Aroclor-1260 {5}	427655	497378	493376	416237	392419	445413	10.64
Average %RSD							15.02

**AROCLOR INITIAL CALIBRATION SUMMARY**

Date Analyzed: 10/24/2013

Instrument ID: GC-Y  
GC Column (2nd): DB-1701P

Data File: Y2478.C Y2477.C Y2476.C Y2475.C Y2474.C

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1016	3.77	3.76	3.76	3.76	3.76	3.76	3.69	3.83
Aroclor-1016 {2}	4.36	4.36	4.36	4.36	4.35	4.36	4.29	4.43
Aroclor-1016 {3}	5.11	5.11	5.11	5.11	5.11	5.11	5.04	5.18
Aroclor-1016 {4}	5.32	5.32	5.31	5.31	5.31	5.32	5.25	5.39
Aroclor-1016 {5}	5.50	5.50	5.49	5.49	5.49	5.49	5.42	5.56
Aroclor-1221			2.44				2.37	2.51
Aroclor-1221 {2}			3.44				3.37	3.51
Aroclor-1221 {3}			3.67				3.60	3.74
Aroclor-1221 {4}			3.76				3.69	3.83
Aroclor-1221 {5}			5.11				5.04	5.18
Aroclor-1232			3.76				3.69	3.83
Aroclor-1232 {2}			4.74				4.67	4.81
Aroclor-1232 {3}			5.32				5.25	5.39
Aroclor-1232 {4}			5.49				5.42	5.56
Aroclor-1232 {5}			6.09				6.02	6.16
Aroclor-1242			4.74				4.67	4.81
Aroclor-1242 {2}			5.49				5.42	5.56
Aroclor-1242 {3}			6.09				6.02	6.16
Aroclor-1242 {4}			6.24				6.17	6.31
Aroclor-1242 {5}			6.79				6.72	6.86
Aroclor-1248			5.11				5.03	5.19
Aroclor-1248 {2}			5.69				5.61	5.77
Aroclor-1248 {3}			6.09				6.01	6.17
Aroclor-1248 {4}			6.24				6.16	6.32
Aroclor-1248 {5}			6.59				6.51	6.67
Aroclor-1254			7.08				7.00	7.16
Aroclor-1254 {2}			7.67				7.59	7.75
Aroclor-1254 {3}			8.28				8.19	8.37
Aroclor-1254 {4}			8.51				8.42	8.60
Aroclor-1254 {5}			9.10				9.01	9.19
Aroclor-1260	7.86	7.86	7.85	7.85	7.85	7.85	6.95	8.75
Aroclor-1260 {2}	8.11	8.11	8.10	8.10	8.11	8.11	7.21	9.01
Aroclor-1260 {3}	9.70	9.70	9.70	9.70	9.70	9.70	8.80	10.60
Aroclor-1260 {4}	10.21	10.21	10.20	10.20	10.20	10.20	9.30	11.10
Aroclor-1260 {5}	10.79	10.79	10.79	10.79	10.79	10.79	9.89	11.69

# AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 10/24/2013

Instrument ID: GC-Y  
GC Column (2nd): DB-1701P

Data File: Y2478.C   Y2477.C   Y2476.C   Y2475.C   Y2474.C

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1016	1077370	953453	804609	701121	709556	849222	19.20
Aroclor-1016 {2}	1918671	1960329	1608123	1381664	1325023	1638762	17.98
Aroclor-1016 {3}	4324478	4205440	4062198	3620367	3349029	3912303	10.54
Aroclor-1016 {4}	1861148	1868934	1815999	1632266	1512673	1738204	9.11
Aroclor-1016 {5}	1430926	1439767	1411203	1275811	1190022	1349546	8.24
Aroclor-1221			361519				
Aroclor-1221 {2}			570497				
Aroclor-1221 {3}			440309				
Aroclor-1221 {4}			1560405				
Aroclor-1221 {5}			298298				
Aroclor-1232			997030				
Aroclor-1232 {2}			442734				
Aroclor-1232 {3}			973980				
Aroclor-1232 {4}			762359				
Aroclor-1232 {5}			1048394				
Aroclor-1242			664309				
Aroclor-1242 {2}			1138194				
Aroclor-1242 {3}			1485300				
Aroclor-1242 {4}			1259374				
Aroclor-1242 {5}			2420970				
Aroclor-1248			2492251				
Aroclor-1248 {2}			3757343				
Aroclor-1248 {3}			2697779				
Aroclor-1248 {4}			2357309				
Aroclor-1248 {5}			1352106				
Aroclor-1254			3041071				
Aroclor-1254 {2}			2368537				
Aroclor-1254 {3}			2266311				
Aroclor-1254 {4}			1381114				
Aroclor-1254 {5}			3490970				
Aroclor-1260	1756745	1609704	1667033	1492660	1384278	1582084	9.25
Aroclor-1260 {2}	2514617	2346239	2396908	2136545	1972010	2273264	9.54
Aroclor-1260 {3}	2272642	2216880	2173205	1982348	1847768	2098568	8.47
Aroclor-1260 {4}	5104232	4840602	4813333	4433949	4194747	4677373	7.70
Aroclor-1260 {5}	3460295	3482324	3518699	3226187	3070976	3351696	5.80
Average %RSD							10.58

# AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 10/24/2013

Instrument ID: GC-Y  
GC Column (1st): DB-5

Data File: Y2478.D Y2477.D Y2476.D Y2475.D Y2474.D

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1262			8.55				8.43	8.67
Aroclor-1262 {2}			9.40				9.28	9.52
Aroclor-1262 {3}			10.03				9.91	10.15
Aroclor-1262 {4}			10.12				10.00	10.24
Aroclor-1262 {5}			10.94				10.82	11.06
Aroclor-1268			10.03				9.91	10.15
Aroclor-1268 {2}			10.12				10.00	10.24
Aroclor-1268 {3}			10.59				10.47	10.71
Aroclor-1268 {4}			11.55				11.43	11.67
Aroclor-1268 {5}			12.03				11.91	12.15

GC Column (2nd): DB-1701P

Data File: Y2478.C Y2477.C Y2476.C Y2475.C Y2474.C

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1262			9.69				9.57	9.81
Aroclor-1262 {2}			10.20				10.08	10.32
Aroclor-1262 {3}			10.70				10.58	10.82
Aroclor-1262 {4}			10.79				10.67	10.91
Aroclor-1262 {5}			11.39				11.27	11.51
Aroclor-1268			10.70				10.58	10.82
Aroclor-1268 {2}			10.78				10.66	10.90
Aroclor-1268 {3}			11.03				10.91	11.15
Aroclor-1268 {4}			12.25				12.13	12.37
Aroclor-1268 {5}			12.48				12.36	12.60

# AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 10/24/2013      Instrument ID: GC-Y  
 GC Column (1st): DB-5

Data File: Y2478.D Y2477.D Y2476.D Y2475.D Y2474.D

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1262			1354994				
Aroclor-1262 {2}			2620645				
Aroclor-1262 {3}			1033050				
Aroclor-1262 {4}			1158982				
Aroclor-1262 {5}			1018815				
Aroclor-1268			2640310				
Aroclor-1268 {2}			2756865				
Aroclor-1268 {3}			2304087				
Aroclor-1268 {4}			7029273				
Aroclor-1268 {5}			4052302				

GC Column (2nd): DB-1701P

Data File: Y2478.C Y2477.C Y2476.C Y2475.C Y2474.C

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1262			2852689				
Aroclor-1262 {2}			6641766				
Aroclor-1262 {3}			2469488				
Aroclor-1262 {4}			4736320				
Aroclor-1262 {5}			986321				
Aroclor-1268			7175428				
Aroclor-1268 {2}			7449976				
Aroclor-1268 {3}			6194617				
Aroclor-1268 {4}			17839550				
Aroclor-1268 {5}			10591825				

# AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 11/01/2013

Instrument ID: GC-Y

Data File: Y2695.D

GC Column (1st):

DB-5

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.22	3.15	3.29	391205	409838	4.76
Aroclor-1016 {2}	4.05	3.97	4.11	542122	559648	3.23
Aroclor-1016 {3}	4.59	4.52	4.66	704235	723456	2.73
Aroclor-1016 {4}	5.10	5.02	5.16	339663	359082	5.72
Aroclor-1016 {5}	5.49	5.41	5.55	566240	594561	5.00
Aroclor-1260	8.26	7.35	9.15	1700984	1659565	2.44
Aroclor-1260 {2}	8.93	8.03	9.83	815992	758389	7.06
Aroclor-1260 {3}	9.40	8.50	10.30	1899320	1750666	7.83
Aroclor-1260 {4}	9.88	8.98	10.78	1065790	917673	13.90
Aroclor-1260 {5}	10.94	10.04	11.84	445413	357674	19.70

Data File: Y2695.C

GC Column (2nd):

DB-1701P

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.77	3.69	3.83	849222	989013	16.46
Aroclor-1016 {2}	4.37	4.29	4.43	1638762	1929158	17.72
Aroclor-1016 {3}	5.12	5.04	5.18	3912303	4320862	10.44
Aroclor-1016 {4}	5.33	5.25	5.39	1738204	1884019	8.39
Aroclor-1016 {5}	5.50	5.42	5.56	1349546	1479023	9.59
Aroclor-1260	7.86	6.95	8.75	1582084	1655456	4.64
Aroclor-1260 {2}	8.11	7.21	9.01	2273264	2311598	1.69
Aroclor-1260 {3}	9.70	8.80	10.60	2098568	1950590	7.05
Aroclor-1260 {4}	10.21	9.30	11.10	4677373	4195052	10.31
Aroclor-1260 {5}	10.79	9.89	11.69	3351696	2850417	14.96

# AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 11/01/2013      Instrument ID: GC-Y

Data File: Y2705.D      GC Column (1st): DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.23	3.15	3.29	391205	334723	14.44
Aroclor-1016 {2}	4.05	3.97	4.11	542122	470445	13.22
Aroclor-1016 {3}	4.60	4.52	4.66	704235	600718	14.70
Aroclor-1016 {4}	5.10	5.02	5.16	339663	307390	9.50
Aroclor-1016 {5}	5.49	5.41	5.55	566240	506834	10.49
Aroclor-1260	8.26	7.35	9.15	1700984	1521579	10.55
Aroclor-1260 {2}	8.93	8.03	9.83	815992	706098	13.47
Aroclor-1260 {3}	9.40	8.50	10.30	1899320	1772234	6.69
Aroclor-1260 {4}	9.88	8.98	10.78	1065790	923913	13.31
Aroclor-1260 {5}	10.94	10.04	11.84	445413	395700	11.16

Data File: Y2705.C      GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.76	3.69	3.83	849222	690452	18.70
Aroclor-1016 {2}	4.36	4.29	4.43	1638762	1571125	4.13
Aroclor-1016 {3}	5.11	5.04	5.18	3912303	3560070	9.00
Aroclor-1016 {4}	5.32	5.25	5.39	1738204	1541107	11.34
Aroclor-1016 {5}	5.49	5.42	5.56	1349546	1217048	9.82
Aroclor-1260	7.85	6.95	8.75	1582084	1394875	11.83
Aroclor-1260 {2}	8.10	7.21	9.01	2273264	2038116	10.34
Aroclor-1260 {3}	9.69	8.80	10.60	2098568	1902686	9.33
Aroclor-1260 {4}	10.20	9.30	11.10	4677373	4303331	8.00
Aroclor-1260 {5}	10.79	9.89	11.69	3351696	3020158	9.89

# AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 10/18/2013      Instrument ID: GC-R  
 GC Column (1st): DB-5

Data File: R4820.D R4819.D R4818.D R4817.D R4816.D

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1016	3.20	3.20	3.20	3.20	3.20	3.20	3.13	3.27
Aroclor-1016 {2}	4.03	4.03	4.03	4.03	4.03	4.03	3.96	4.10
Aroclor-1016 {3}	4.59	4.58	4.58	4.58	4.58	4.58	4.51	4.65
Aroclor-1016 {4}	5.09	5.09	5.09	5.09	5.09	5.09	5.02	5.16
Aroclor-1016 {5}	5.49	5.49	5.49	5.49	5.49	5.49	5.42	5.56
Aroclor-1221			2.11				2.04	2.18
Aroclor-1221 {2}			3.00				2.93	3.07
Aroclor-1221 {3}			3.13				3.06	3.20
Aroclor-1221 {4}			3.20				3.13	3.27
Aroclor-1221 {5}			3.80				3.73	3.87
Aroclor-1232			3.20				3.13	3.27
Aroclor-1232 {2}			4.03				3.96	4.10
Aroclor-1232 {3}			4.70				4.63	4.77
Aroclor-1232 {4}			5.29				5.22	5.36
Aroclor-1232 {5}			5.49				5.42	5.56
Aroclor-1242			4.03				3.96	4.10
Aroclor-1242 {2}			4.97				4.90	5.04
Aroclor-1242 {3}			5.30				5.23	5.37
Aroclor-1242 {4}			6.00				5.93	6.07
Aroclor-1242 {5}			6.27				6.20	6.34
Aroclor-1248			4.43				4.35	4.51
Aroclor-1248 {2}			4.97				4.89	5.05
Aroclor-1248 {3}			5.30				5.22	5.38
Aroclor-1248 {4}			6.00				5.92	6.08
Aroclor-1248 {5}			6.27				6.19	6.35
Aroclor-1254			6.39				6.31	6.47
Aroclor-1254 {2}			6.83				6.75	6.91
Aroclor-1254 {3}			7.00				6.91	7.09
Aroclor-1254 {4}			7.45				7.36	7.54
Aroclor-1254 {5}			8.30				8.21	8.39
Aroclor-1260	8.30	8.30	8.29	8.29	8.29	8.29	7.39	9.19
Aroclor-1260 {2}	8.97	8.97	8.97	8.97	8.96	8.97	8.07	9.87
Aroclor-1260 {3}	9.46	9.46	9.45	9.45	9.45	9.45	8.55	10.35
Aroclor-1260 {4}	9.95	9.95	9.94	9.94	9.94	9.94	9.04	10.84
Aroclor-1260 {5}	11.02	11.01	11.01	11.01	11.00	11.01	10.11	11.91

# AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 10/18/2013      Instrument ID: GC-R  
 GC Column (1st): DB-5

Data File: R4820.D R4819.D R4818.D R4817.D R4816.D

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1016	231867	242237	228592	193642	202501	219768	9.41
Aroclor-1016 {2}	323952	328763	312155	266416	283182	302894	8.92
Aroclor-1016 {3}	408864	422707	403550	343925	364951	388800	8.48
Aroclor-1016 {4}	211380	209414	197757	165186	173203	191388	11.03
Aroclor-1016 {5}	318536	325749	322343	275171	293750	307110	7.11
Aroclor-1221			112607				
Aroclor-1221 {2}			180363				
Aroclor-1221 {3}			116612				
Aroclor-1221 {4}			410785				
Aroclor-1221 {5}			87454				
Aroclor-1232			299005				
Aroclor-1232 {2}			173615				
Aroclor-1232 {3}			148470				
Aroclor-1232 {4}			166967				
Aroclor-1232 {5}			214764				
Aroclor-1242			270307				
Aroclor-1242 {2}			167968				
Aroclor-1242 {3}			238157				
Aroclor-1242 {4}			373164				
Aroclor-1242 {5}			318472				
Aroclor-1248			652071				
Aroclor-1248 {2}			375416				
Aroclor-1248 {3}			492167				
Aroclor-1248 {4}			820080				
Aroclor-1248 {5}			559162				
Aroclor-1254			754913				
Aroclor-1254 {2}			471653				
Aroclor-1254 {3}			896264				
Aroclor-1254 {4}			908483				
Aroclor-1254 {5}			831676				
Aroclor-1260	775960	857104	906294	793572	814009	829388	6.34
Aroclor-1260 {2}	377553	403178	424628	369076	376790	390245	5.93
Aroclor-1260 {3}	928859	1035434	1093936	957941	955048	994243	6.89
Aroclor-1260 {4}	468061	491573	539142	480892	479108	491755	5.65
Aroclor-1260 {5}	276730	239351	257112	224560	216162	242783	10.11

Average %RSD

7.99

**AROCLOR INITIAL CALIBRATION SUMMARY**

Date Analyzed: 10/18/2013

Instrument ID: GC-R  
GC Column (2nd): DB-1701P

Data File: R4820.C R4819.C R4818.C R4817.C R4816.C

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1016	3.37	3.37	3.37	3.37	3.37	3.37	3.30	3.44
Aroclor-1016 {2}	3.93	3.93	3.93	3.93	3.93	3.93	3.86	4.00
Aroclor-1016 {3}	4.65	4.65	4.65	4.65	4.65	4.65	4.58	4.72
Aroclor-1016 {4}	4.85	4.85	4.85	4.85	4.85	4.85	4.78	4.92
Aroclor-1016 {5}	5.01	5.01	5.02	5.02	5.02	5.02	4.95	5.09
Aroclor-1221			2.16				2.09	2.23
Aroclor-1221 {2}			3.07				3.00	3.14
Aroclor-1221 {3}			3.28				3.21	3.35
Aroclor-1221 {4}			3.37				3.30	3.44
Aroclor-1221 {5}			4.65				4.58	4.72
Aroclor-1232			3.37				3.30	3.44
Aroclor-1232 {2}			4.29				4.22	4.36
Aroclor-1232 {3}			4.85				4.78	4.92
Aroclor-1232 {4}			5.02				4.95	5.09
Aroclor-1232 {5}			5.60				5.53	5.67
Aroclor-1242			4.29				4.22	4.36
Aroclor-1242 {2}			5.02				4.95	5.09
Aroclor-1242 {3}			5.60				5.53	5.67
Aroclor-1242 {4}			5.75				5.68	5.82
Aroclor-1242 {5}			6.29				6.22	6.36
Aroclor-1248			4.65				4.57	4.73
Aroclor-1248 {2}			5.21				5.13	5.29
Aroclor-1248 {3}			5.60				5.52	5.68
Aroclor-1248 {4}			5.75				5.67	5.83
Aroclor-1248 {5}			6.09				6.01	6.17
Aroclor-1254			6.58				6.50	6.66
Aroclor-1254 {2}			7.16				7.08	7.24
Aroclor-1254 {3}			7.59				7.50	7.68
Aroclor-1254 {4}			7.78				7.69	7.87
Aroclor-1254 {5}			8.58				8.49	8.67
Aroclor-1260	7.34	7.34	7.34	7.34	7.34	7.34	6.44	8.24
Aroclor-1260 {2}	7.59	7.59	7.59	7.59	7.59	7.59	6.69	8.49
Aroclor-1260 {3}	9.17	9.17	9.17	9.17	9.17	9.17	8.27	10.07
Aroclor-1260 {4}	9.69	9.69	9.69	9.68	9.68	9.69	8.79	10.59
Aroclor-1260 {5}	10.28	10.28	10.27	10.27	10.27	10.27	9.37	11.17

# AROCLOL INITIAL CALIBRATION SUMMARY

Date Analyzed: 10/18/2013

Instrument ID: GC-R  
GC Column (2nd): DB-1701P

Data File: R4820.C R4819.C R4818.C R4817.C R4816.C

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1016	550494	519905	477104	398620	415593	472343	13.82
Aroclor-1016 {2}	1137773	1114790	971547	817071	857941	979824	14.84
Aroclor-1016 {3}	2409237	2308318	2162673	1836901	1930647	2129555	11.42
Aroclor-1016 {4}	976378	938082	902861	752678	797813	873562	10.85
Aroclor-1016 {5}	765897	723148	693529	580374	604962	673582	11.68
Aroclor-1221			232590				
Aroclor-1221 {2}			371702				
Aroclor-1221 {3}			228573				
Aroclor-1221 {4}			851260				
Aroclor-1221 {5}			156189				
Aroclor-1232			626422				
Aroclor-1232 {2}			237558				
Aroclor-1232 {3}			506906				
Aroclor-1232 {4}			387345				
Aroclor-1232 {5}			545113				
Aroclor-1242			361591				
Aroclor-1242 {2}			595144				
Aroclor-1242 {3}			790982				
Aroclor-1242 {4}			656779				
Aroclor-1242 {5}			1253965				
Aroclor-1248			1407656				
Aroclor-1248 {2}			2125325				
Aroclor-1248 {3}			1515589				
Aroclor-1248 {4}			1365446				
Aroclor-1248 {5}			734322				
Aroclor-1254			1659417				
Aroclor-1254 {2}			1314077				
Aroclor-1254 {3}			861013				
Aroclor-1254 {4}			1218067				
Aroclor-1254 {5}			1822415				
Aroclor-1260	922431	1045578	934621	786115	713116	880372	14.90
Aroclor-1260 {2}	1394880	1337506	1235464	1030567	1057679	1211219	13.47
Aroclor-1260 {3}	1134860	1095803	1056150	902187	916628	1021126	10.36
Aroclor-1260 {4}	2472691	2519783	2419894	2060860	2010835	2296813	10.51
Aroclor-1260 {5}	1675873	1830814	1743697	1489536	1439740	1635932	10.19

Average %RSD

12.21

# AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 10/18/2013

Instrument ID: GC-R  
GC Column (1st): DB-5

Data File: R4820.D R4819.D R4818.D R4817.D R4816.D

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1262			8.66				8.54	8.78
Aroclor-1262 {2}			9.45				9.33	9.57
Aroclor-1262 {3}			10.08				9.96	10.20
Aroclor-1262 {4}			10.17				10.05	10.29
Aroclor-1262 {5}			11.01				10.89	11.13
Aroclor-1268			10.08				9.96	10.20
Aroclor-1268 {2}			10.17				10.05	10.29
Aroclor-1268 {3}			10.63				10.51	10.75
Aroclor-1268 {4}			10.76				10.64	10.88
Aroclor-1268 {5}			11.61				11.49	11.73

GC Column (2nd): DB-1701P

Data File: R4820.C R4819.C R4818.C R4817.C R4816.C

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1262			9.17				9.05	9.29
Aroclor-1262 {2}			9.68				9.56	9.80
Aroclor-1262 {3}			10.17				10.05	10.29
Aroclor-1262 {4}			10.26				10.14	10.38
Aroclor-1262 {5}			10.86				10.74	10.98
Aroclor-1268			10.17				10.05	10.29
Aroclor-1268 {2}			10.25				10.13	10.37
Aroclor-1268 {3}			10.50				10.38	10.62
Aroclor-1268 {4}			10.64				10.52	10.76
Aroclor-1268 {5}			11.72				11.60	11.84

# AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 10/18/2013

Instrument ID: GC-R  
GC Column (1st): DB-5

Data File: R4820.D R4819.D R4818.D R4817.D R4816.D

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1262			420599				
Aroclor-1262 {2}			1542205				
Aroclor-1262 {3}			582031				
Aroclor-1262 {4}			721905				
Aroclor-1262 {5}			531740				
Aroclor-1268			1681176				
Aroclor-1268 {2}			1910902				
Aroclor-1268 {3}			1476250				
Aroclor-1268 {4}			401069				
Aroclor-1268 {5}			4856406				

GC Column (2nd): DB-1701P

Data File: R4820.C R4819.C R4818.C R4817.C R4816.C

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1262			1508129				
Aroclor-1262 {2}			3468452				
Aroclor-1262 {3}			1097700				
Aroclor-1262 {4}			2448536				
Aroclor-1262 {5}			430436				
Aroclor-1268			3602626				
Aroclor-1268 {2}			4026803				
Aroclor-1268 {3}			3133762				
Aroclor-1268 {4}			846659				
Aroclor-1268 {5}			9930684				

# AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/30/2013

Instrument ID: GC-R

Data File: R5067.D

GC Column (1st): DB-5

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.20	3.13	3.27	219768	226382	3.01
Aroclor-1016 {2}	4.03	3.96	4.10	302894	304798	0.63
Aroclor-1016 {3}	4.59	4.51	4.65	388800	398586	2.52
Aroclor-1016 {4}	5.09	5.02	5.16	191388	192980	0.83
Aroclor-1016 {5}	5.49	5.42	5.56	307110	314705	2.47
Aroclor-1260	8.29	7.39	9.19	829388	935430	12.79
Aroclor-1260 {2}	8.97	8.07	9.87	390245	425907	9.14
Aroclor-1260 {3}	9.45	8.55	10.35	994243	1137003	14.36
Aroclor-1260 {4}	9.94	9.04	10.84	491755	580279	18.00
Aroclor-1260 {5}	11.00	10.11	11.91	242783	260571	7.33

Data File: R5067.C

GC Column (2nd): DB-1701P

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.37	3.30	3.44	472343	408552	13.51
Aroclor-1016 {2}	3.93	3.86	4.00	979824	818241	16.49
Aroclor-1016 {3}	4.65	4.58	4.72	2129555	1841248	13.54
Aroclor-1016 {4}	4.85	4.78	4.92	873562	761791	12.79
Aroclor-1016 {5}	5.01	4.95	5.09	673582	588479	12.63
Aroclor-1260	7.33	6.44	8.24	880372	789411	10.33
Aroclor-1260 {2}	7.58	6.69	8.49	1211219	1032031	14.79
Aroclor-1260 {3}	9.17	8.27	10.07	1021126	904727	11.40
Aroclor-1260 {4}	9.67	8.79	10.59	2296813	2053364	10.60
Aroclor-1260 {5}	10.26	9.37	11.17	1635932	1503139	8.12

# AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/30/2013

Instrument ID: GC-R

Data File: R5080.D

GC Column (1st): DB-5

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.21	3.13	3.27	219768	223022	1.48
Aroclor-1016 {2}	4.04	3.96	4.10	302894	301029	0.62
Aroclor-1016 {3}	4.59	4.51	4.65	388800	396841	2.07
Aroclor-1016 {4}	5.10	5.02	5.16	191388	195469	2.13
Aroclor-1016 {5}	5.49	5.42	5.56	307110	311775	1.52
Aroclor-1260	8.30	7.39	9.19	829388	920755	11.02
Aroclor-1260 {2}	8.97	8.07	9.87	390245	426757	9.36
Aroclor-1260 {3}	9.45	8.55	10.35	994243	1079732	8.60
Aroclor-1260 {4}	9.94	9.04	10.84	491755	567080	15.32
Aroclor-1260 {5}	11.00	10.11	11.91	242783	287239	18.31

Data File: R5080.C

GC Column (2nd): DB-1701P

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.37	3.30	3.44	472343	397827	15.78
Aroclor-1016 {2}	3.93	3.86	4.00	979824	799824	18.37
Aroclor-1016 {3}	4.65	4.58	4.72	2129555	1811499	14.94
Aroclor-1016 {4}	4.85	4.78	4.92	873562	749563	14.19
Aroclor-1016 {5}	5.02	4.95	5.09	673582	578693	14.09
Aroclor-1260	7.34	6.44	8.24	880372	768420	12.72
Aroclor-1260 {2}	7.59	6.69	8.49	1211219	1014364	16.25
Aroclor-1260 {3}	9.17	8.27	10.07	1021126	877067	14.11
Aroclor-1260 {4}	9.68	8.79	10.59	2296813	1949881	15.10
Aroclor-1260 {5}	10.26	9.37	11.17	1635932	1429816	12.60

**AROCLOR CALIBRATION VERIFICATION SUMMARY**

Date/Time Analyzed: 10/30/2013

Instrument ID: GC-R

Data File: R5093.D

GC Column (1st): DB-5

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.20	3.13	3.27	219768	225592	2.65
Aroclor-1016 {2}	4.04	3.96	4.10	302894	303988	0.36
Aroclor-1016 {3}	4.59	4.51	4.65	388800	400368	2.98
Aroclor-1016 {4}	5.10	5.02	5.16	191388	198636	3.79
Aroclor-1016 {5}	5.49	5.42	5.56	307110	315384	2.69
Aroclor-1260	8.29	7.39	9.19	829388	938880	13.20
Aroclor-1260 {2}	8.97	8.07	9.87	390245	425405	9.01
Aroclor-1260 {3}	9.45	8.55	10.35	994243	1127719	13.42
Aroclor-1260 {4}	9.94	9.04	10.84	491755	572852	16.49
Aroclor-1260 {5}	11.00	10.11	11.91	242783	251822	3.72

Data File: R5093.C

GC Column (2nd): DB-1701P

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.37	3.30	3.44	472343	403440	14.59
Aroclor-1016 {2}	3.93	3.86	4.00	979824	807929	17.54
Aroclor-1016 {3}	4.65	4.58	4.72	2129555	1836426	13.76
Aroclor-1016 {4}	4.85	4.78	4.92	873562	758725	13.15
Aroclor-1016 {5}	5.02	4.95	5.09	673582	585461	13.08
Aroclor-1260	7.34	6.44	8.24	880372	783092	11.05
Aroclor-1260 {2}	7.59	6.69	8.49	1211219	1023315	15.51
Aroclor-1260 {3}	9.17	8.27	10.07	1021126	892271	12.62
Aroclor-1260 {4}	9.68	8.79	10.59	2296813	2023224	11.91
Aroclor-1260 {5}	10.26	9.37	11.17	1635932	1424014	12.95

# AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/31/2013

Instrument ID: GC-R

Data File: R5094.D

GC Column (1st): DB-5

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.20	3.13	3.27	219768	206755	5.92
Aroclor-1016 {2}	4.03	3.96	4.10	302894	280702	7.33
Aroclor-1016 {3}	4.59	4.51	4.65	388800	368957	5.10
Aroclor-1016 {4}	5.09	5.02	5.16	191388	174307	8.92
Aroclor-1016 {5}	5.49	5.42	5.56	307110	291966	4.93
Aroclor-1260	8.29	7.39	9.19	829388	937107	12.99
Aroclor-1260 {2}	8.96	8.07	9.87	390245	430479	10.31
Aroclor-1260 {3}	9.44	8.55	10.35	994243	1049020	5.51
Aroclor-1260 {4}	9.92	9.04	10.84	491755	554136	12.69
Aroclor-1260 {5}	10.99	10.11	11.91	242783	247824	2.08

Data File: R5094.C

GC Column (2nd): DB-1701P

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.38	3.30	3.44	472343	392156	16.98
Aroclor-1016 {2}	3.94	3.86	4.00	979824	787070	19.67
Aroclor-1016 {3}	4.66	4.58	4.72	2129555	1800591	15.45
Aroclor-1016 {4}	4.86	4.78	4.92	873562	732111	16.19
Aroclor-1016 {5}	5.03	4.95	5.09	673582	569186	15.50
Aroclor-1260	7.34	6.44	8.24	880372	709621	19.40
Aroclor-1260 {2}	7.59	6.69	8.49	1211219	982059	18.92
Aroclor-1260 {3}	9.17	8.27	10.07	1021126	964711	5.52
Aroclor-1260 {4}	9.68	8.79	10.59	2296813	2004803	12.71
Aroclor-1260 {5}	10.26	9.37	11.17	1635932	1427265	12.76

# AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/31/2013      Instrument ID: GC-R

Data File: R5098.D      GC Column (1st): DB-5

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.21	3.13	3.27	219768	209059	4.87
Aroclor-1016 {2}	4.04	3.96	4.10	302894	282996	6.57
Aroclor-1016 {3}	4.59	4.51	4.65	388800	374426	3.70
Aroclor-1016 {4}	5.10	5.02	5.16	191388	187569	2.00
Aroclor-1016 {5}	5.49	5.42	5.56	307110	297109	3.26
Aroclor-1260	8.30	7.39	9.19	829388	887219	6.97
Aroclor-1260 {2}	8.97	8.07	9.87	390245	400259	2.57
Aroclor-1260 {3}	9.45	8.55	10.35	994243	1079275	8.55
Aroclor-1260 {4}	9.94	9.04	10.84	491755	542866	10.39
Aroclor-1260 {5}	11.00	10.11	11.91	242783	249368	2.71

Data File: R5098.C      GC Column (2nd): DB-1701P

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.37	3.30	3.44	472343	381631	19.20
Aroclor-1016 {2}	3.93	3.86	4.00	979824	820496	16.26
Aroclor-1016 {3}	4.65	4.58	4.72	2129555	1732711	18.64
Aroclor-1016 {4}	4.85	4.78	4.92	873562	718271	17.78
Aroclor-1016 {5}	5.02	4.95	5.09	673582	555283	17.56
Aroclor-1260	7.34	6.44	8.24	880372	760043	13.67
Aroclor-1260 {2}	7.59	6.69	8.49	1211219	994405	17.90
Aroclor-1260 {3}	9.17	8.27	10.07	1021126	863721	15.41
Aroclor-1260 {4}	9.68	8.79	10.59	2296813	1988773	13.41
Aroclor-1260 {5}	10.26	9.37	11.17	1635932	1429003	12.65

## PCB RETENTION TIME SHIFT SUMMARY

**Instrument ID:** GC-Y

**Column:** DB-5/DB-1701P

Surrogate RT from initial calibration :

TCMX 1	<u>2.77</u>	DCB 1	<u>12.04</u>	TCMX 2	<u>2.89</u>	DCB 2	<u>12.48</u>
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Client ID	Lab	Date Analyzed	Time Analyzed	TCMX 1 RT #	DCB 1 RT #	TCMX 2 RT #	DCB 2 RT #
PCB	BLKA131021-17	10/22/2013	21:25	2.77	12.04	2.89	12.48
PCB	LCSA131021-17	10/22/2013	21:43	2.77	12.04	2.89	12.48
OUTFALL	E13-10256-001	10/22/2013	22:00	2.77	12.04	2.89	12.48
FB-21	E13-10192-011	10/22/2013	22:17	2.77	12.04	2.89	12.48
FB-22	E13-10227-014	10/22/2013	22:35	2.77	12.04	2.89	12.48
PCB	E13-10256-001MS	10/22/2013	22:52	2.77	12.04	2.89	12.48
PCB	E13-10256-001MSD	10/22/2013	23:09	2.77	12.04	2.89	12.48

Surrogate QC Limits

**TCMX = Tetrachloro-m-xylene**

(  $\pm$  0.10 Minutes )

**DCB = Decachlorobiphenyl**

(  $\pm$  0.10 Minutes )

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

## PCB RETENTION TIME SHIFT SUMMARY

**Instrument ID:** GC-Y

**Column:** DB-5/DB-1701P

Surrogate RT from initial calibration :

<b>TCMX 1</b>	<u>2.77</u>	<b>DCB 1</b>	<u>12.03</u>	<b>TCMX 2</b>	<u>2.89</u>	<b>DCB 2</b>	<u>12.47</u>
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<b>Client ID</b>	<b>Lab</b>	<b>Date</b>	<b>Time</b>	<b>TCMX 1</b>	<b>DCB 1</b>	<b>TCMX 2</b>	<b>DCB 2</b>
	<b>Sample ID</b>	<b>Analyzed</b>	<b>Analyzed</b>	<b>RT</b>	<b>#</b>	<b>RT</b>	<b>#</b>
PCB	BLKA131101-10	11/01/2013	17:36	2.77		12.03	2.89
PCB	LCSA131101-10	11/01/2013	17:54	2.77		12.03	2.89
FB-10281	E13-10721-027	11/01/2013	18:11	2.77		12.03	2.89
FB-26	E13-10679-016	11/01/2013	18:28	2.77		12.03	2.89
FB-27	E13-10707-020	11/01/2013	18:46	2.77		12.03	2.89
FB-28	E13-10748-014	11/01/2013	19:03	2.77		12.03	2.89
FB	E13-10877-007	11/01/2013	19:21	2.77		12.04	2.89
FB-29	E13-10796-024	11/01/2013	19:38	2.77		12.03	2.89
FB-30	E13-10867-016	11/01/2013	19:55	2.77		12.03	2.89

Surrogate QC Limits

**TCMX = Tetrachloro-m-xylene** (  $\pm$  0.10 Minutes )

**DCB = Decachlorobiphenyl** (  $\pm$  0.10 Minutes )

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

# PCB RETENTION TIME SHIFT SUMMARY

**Instrument ID:** GC-R

**Column:** DB-5/DB-1701P

Surrogate RT from initial calibration :

TCMX 1	2.74	DCB 1	12.08	TCMX 2	2.57	DCB 2	11.93
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Client ID	Lab	Date	Time	TCMX 1	DCB 1	TCMX 2	DCB 2
Client ID	Sample ID	Analyzed	Analyzed	RT #	RT #	RT #	RT #
PCB	BLKS131029-14	10/30/2013	13:31	2.74	12.08	2.57	11.93
PCB	LCSS131029-14	10/30/2013	13:48	2.74	12.08	2.56	11.93
W-43_(6.	E13-10707-006	10/30/2013	14:18	2.74	12.08	2.57	11.94
PCB	10707-006MS	10/30/2013	14:35	2.74	12.08	2.56	11.93
PCB	10707-006MSD	10/30/2013	14:53	2.74	12.08	2.56	11.93
P-48N_(0	E13-10707-001	10/30/2013	15:10	2.74	12.08	2.56	11.93
P-48N_(1	E13-10707-002	10/30/2013	15:28	2.74	12.08	2.56	11.93
W-43_(3.	E13-10707-003	10/30/2013	15:45	2.74	12.08	2.56	11.93
W-43_(4.	E13-10707-004	10/30/2013	16:03	2.74	12.08	2.56	11.93
W-43_(5.	E13-10707-005	10/30/2013	16:20	2.74	12.08	2.56	11.93
AA-48_(0	E13-10707-007	10/30/2013	16:38	2.74	12.08	2.56	11.93
AA-48_(1	E13-10707-008	10/30/2013	16:55	2.74	12.08	2.56	11.93
BB-48_(0	E13-10707-009	10/30/2013	17:30	2.74	12.08	2.56	11.93
BB-48_(1	E13-10707-010	10/30/2013	18:05	2.74	12.08	2.56	11.93
CC-46S_(	E13-10707-011	10/30/2013	18:40	2.74	12.08	2.56	11.93
CC-46S_(	E13-10707-012	10/30/2013	18:57	2.74	12.08	2.56	11.93
AA-45N_(	E13-10707-013	10/30/2013	19:15	2.74	12.08	2.56	11.93
AA-45N_(	E13-10707-014	10/30/2013	19:50	2.74	12.08	2.57	11.93
AA-45N_(	E13-10707-015	10/30/2013	20:07	2.74	12.08	2.56	11.93
AA-45_(0	E13-10707-016	10/30/2013	20:25	2.74	12.08	2.56	11.93
AA-45_(1	E13-10707-017	10/30/2013	20:42	2.74	12.08	2.56	11.93
Z-45_(0-	E13-10707-018	10/30/2013	21:00	2.74	12.08	2.56	11.93
Z-45_(1.	E13-10707-019	10/30/2013	21:17	2.74	12.08	2.56	11.93
S-12	E13-10681-006	10/30/2013	21:34	2.74	12.08	2.56	11.93

Surrogate QC Limits

TCMX = Tetrachloro-m-xylene

(  $\pm$  0.10 Minutes )

DCB = Decachlorobiphenyl

(  $\pm$  0.10 Minutes )

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

## PCB RETENTION TIME SHIFT SUMMARY

Instrument ID: GC-R

Column: DB-5/DB-1701P

Surrogate RT from initial calibration :

TCMX 1	<u>2.74</u>	DCB 1	<u>12.08</u>	TCMX 2	<u>2.57</u>	DCB 2	<u>11.93</u>
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Client ID	Sample ID	Lab	Date Analyzed	Time Analyzed	TCMX 1 RT #	DCB 1 RT #	TCMX 2 RT #	DCB 2 RT #
PCB	BLKS131029-14		10/30/2013	13:31	2.74	12.08	2.57	11.93
BB-48_(0	E13-10707-009DL		10/31/2013	09:44	2.74	12.08	2.57	11.94
BB-48_(1	E13-10707-010DL		10/31/2013	10:02	2.74	12.08	2.56	11.93

Surrogate QC Limits

TCMX = Tetrachloro-m-xylene

(  $\pm$  0.10 Minutes )

DCB = Decachlorobiphenyl

(  $\pm$  0.10 Minutes )

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

**PCB SAMPLE DATA**

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E13-10707 0077

Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
 Data File : R5073.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 30 Oct 2013 15:10  
 Operator : NG  
 Sample : P-48N\_(0,E13-10707-001,S,5.53g,64.7,20  
 Misc : 131029-14,10/29/13,10/28/13,1  
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 30 17:11:32 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
 Quant Title :  
 QLast Update : Fri Oct 18 14:06:50 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.56	2924.1E6	5178.0E6	242.354	197.186
Spiked Amount	200.000			Recovery	= 121.18%	98.59%
2) S DCB	12.08	11.93	808.5E6	1561.2E6	204.971	188.458
Spiked Amount	200.000			Recovery	= 102.49%	94.23%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	4.65	51686749	83890658	79.266	59.596
24) L6 Aroclor-1248	{2}	4.98	5.21	98816056	432.5E6	263.217
25) L6 Aroclor-1248	{3}	5.30	5.60	142.0E6	351.5E6	288.473
26) L6 Aroclor-1248	{4}	6.00	5.75	200.5E6	194.0E6	244.526
27) L6 Aroclor-1248	{5}	6.26	6.07	120.9E6	185.7E6	216.225
Sum Aroclor-1248				613.9E6	1247.6E6	1091.707
Average Aroclor-1248					218.341	177.990
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

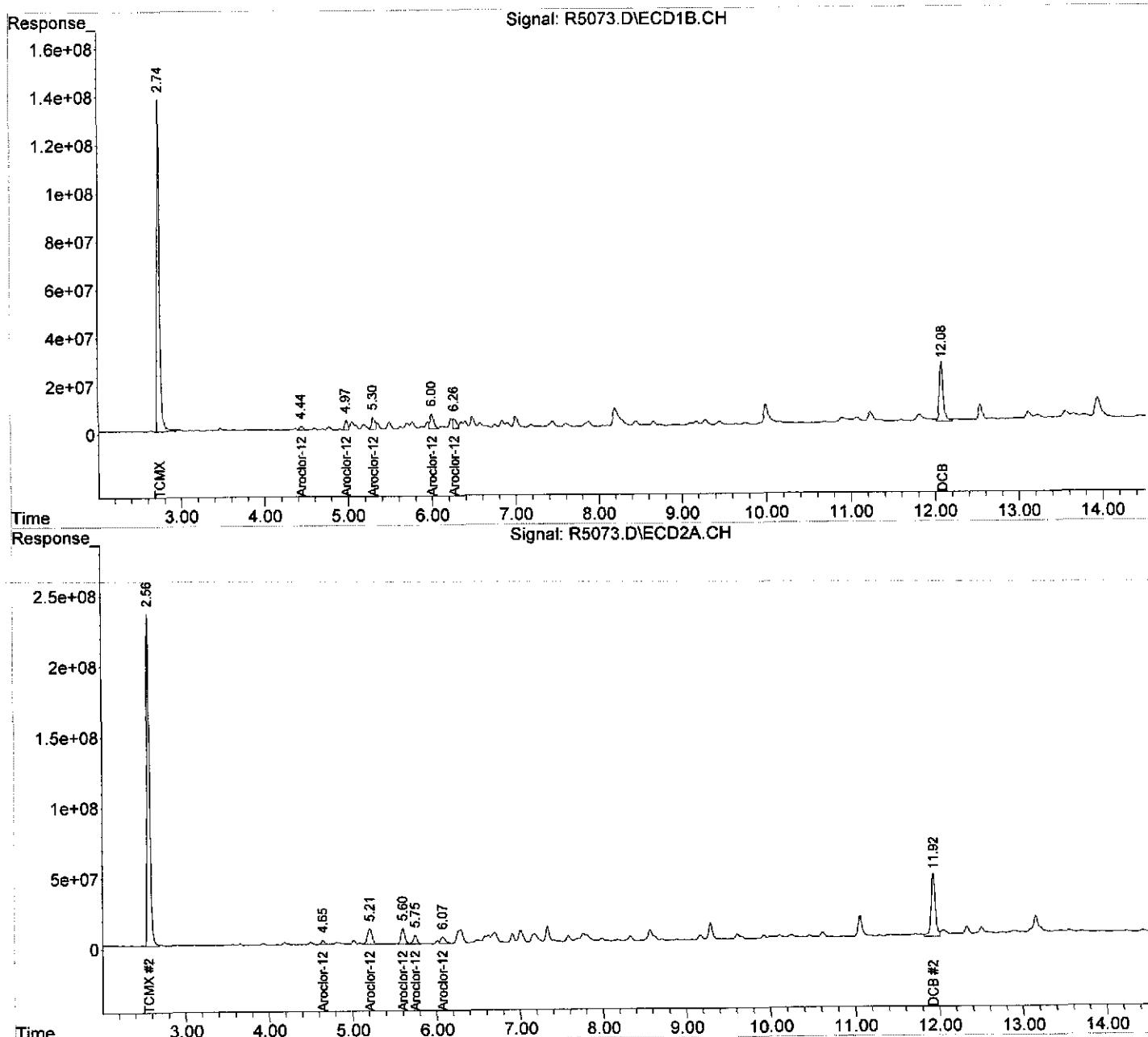
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
Data File : R5073.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 30 Oct 2013 15:10  
Operator : NG  
Sample : P-48N\_(0,E13-10707-001,S,5.53g,64.7,20  
Misc : 131029-14,10/29/13,10/28/13,1  
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 30 17:11:32 2013  
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
Quant Title :  
QLast Update : Fri Oct 18 14:06:50 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
 Data File : R5074.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 30 Oct 2013 15:28  
 Operator : NG  
 Sample : P-48N\_(1,E13-10707-002,S,5.09g,83.7,20  
 Misc : 131029-14,10/29/13,10/28/13,1  
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 30 17:12:45 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
 Quant Title :  
 QLast Update : Fri Oct 18 14:06:50 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

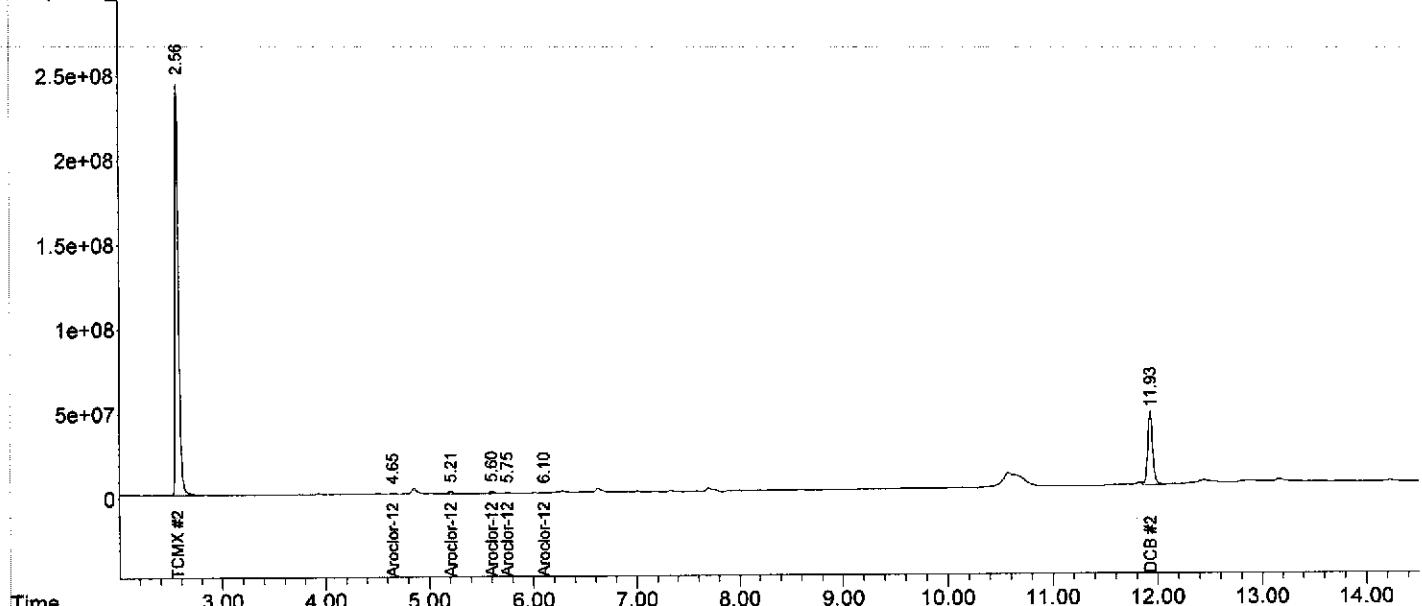
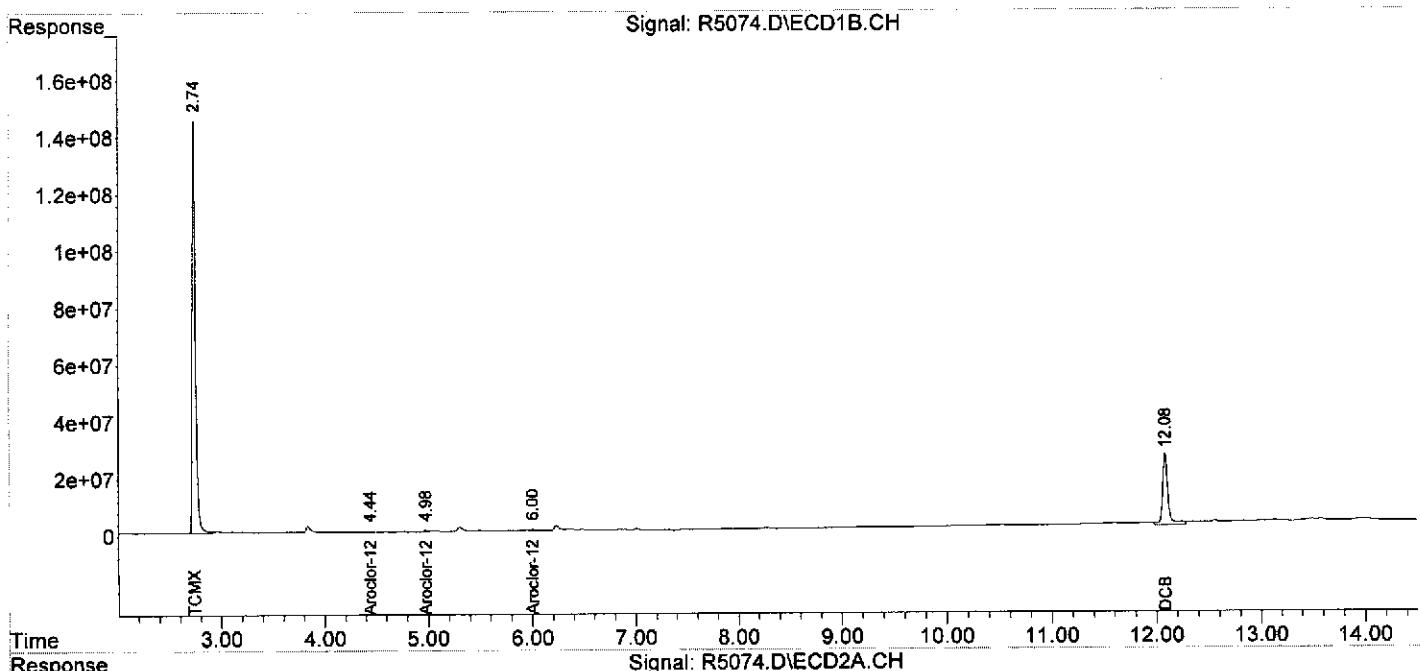
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2	
<hr/>							
System Monitoring Compounds							
1) S TCMX	2.74	2.56	3109.1E6	5528.4E6	257.680	210.533	
Spiked Amount	200.000			Recovery	= 128.84%	105.27%	
2) S DCB	12.08	11.93	911.7E6	1427.4E6	231.146	172.304 #	
Spiked Amount	200.000			Recovery	= 115.57%	86.15%	
<hr/>							
Target Compounds							
Sum Aroclor-1016			0	0	N.D.	N.D.	
Average Aroclor-1016					0.000	0.000	
Sum Aroclor-1221			0	0	N.D.	N.D.	
Average Aroclor-1221					0.000	0.000	
Sum Aroclor-1232			0	0	N.D.	N.D.	
Average Aroclor-1232					0.000	0.000	
Sum Aroclor-1242			0	0	N.D.	N.D.	
Average Aroclor-1242					0.000	0.000	
23) L6 Aroclor-1248	4.44	4.65	9275926	14812085	14.225	10.523 #	
24) L6 Aroclor-1248	{2}	4.98	5.21	11965774	51177604	31.873	24.080
25) L6 Aroclor-1248	{3}	0.00	5.60	0	44499296	N.D. d	29.361 #
26) L6 Aroclor-1248	{4}	6.00	5.75	24533181	23631237	29.916	17.307 #
27) L6 Aroclor-1248	{5}	0.00	6.10	0	16246357	N.D. d	22.124 #
Sum Aroclor-1248			45774881	150.4E6	76.014	103.394	
Average Aroclor-1248					25.338	20.679	
Sum Aroclor-1254			0	0	N.D.	N.D.	
Average Aroclor-1254					0.000	0.000	
Sum Aroclor-1260			0	0	N.D.	N.D.	
Average Aroclor-1260					0.000	0.000	
Sum Aroclor-1262			0	0	N.D.	N.D.	
Average Aroclor-1262					0.000	0.000	
Sum Aroclor-1268			0	0	N.D.	N.D.	
Average Aroclor-1268					0.000	0.000	
<hr/>							

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
Data File : R5074.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 30 Oct 2013 15:28  
Operator : NG  
Sample : P-48N\_(1,E13-10707-002,S,5.09g,83.7,20  
Misc : 131029-14,10/29/13,10/28/13,1  
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 30 17:12:45 2013  
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
Quant Title :  
QLast Update : Fri Oct 18 14:06:50 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
 Data File : R5075.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 30 Oct 2013 15:45  
 Operator : NG  
 Sample : W-43\_(3.,E13-10707-003,S,5.49g,76.0,20  
 Misc : 131029-14,10/29/13,10/28/13,1  
 ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 31 13:17:15 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
 Quant Title :  
 QLast Update : Fri Oct 18 14:06:50 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.56	2846.0E6	5259.4E6	235.879	200.288
Spiked Amount	200.000			Recovery	= 117.94%	100.14%
2) S DCB	12.08	11.93	730.1E6	1407.4E6	185.092	169.888
Spiked Amount	200.000			Recovery	= 92.55%	84.94%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	4.65	81802091	149.2E6	125.450	105.980
24) L6 Aroclor-1248 {2}	4.98	5.21	32923886	149.5E6	87.700	70.355
25) L6 Aroclor-1248 {3}	5.30	5.60	42210878	112.6E6	85.765m	74.302
26) L6 Aroclor-1248 {4}	6.00	5.75	64594399	86310648	78.766	63.211
27) L6 Aroclor-1248 {5}	6.28	6.10	49081974	35692139	87.778	48.606 #
Sum Aroclor-1248			270.6E6	533.3E6	465.458	362.453
Average Aroclor-1248					93.092	72.491
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
33) L8 Aroclor-1260	8.29	7.33	104.2E6	121.7E6	125.669	138.264m
34) L8 Aroclor-1260 {2}	8.97	7.59	17048165	72604414	43.686	59.943 #
35) L8 Aroclor-1260 {3}	9.45	9.17	41035821	59416985	41.273	58.188 #
36) L8 Aroclor-1260 {4}	9.93	9.67	21345018	96594645	43.406	42.056
37) L8 Aroclor-1260 {5}	10.99	10.26	9807959	68016296	40.398m	41.576
Sum Aroclor-1260			193.5E6	418.4E6	294.432	340.028
Average Aroclor-1260					58.886	68.006
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
Data File : R5075.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 30 Oct 2013 15:45  
Operator : NG  
Sample : W-43\_(3.,E13-10707-003,S,5.49g,76.0,20  
Misc : 131029-14,10/29/13,10/28/13,1  
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 31 13:17:15 2013  
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
Quant Title :  
QLast Update : Fri Oct 18 14:06:50 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
-----	-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----

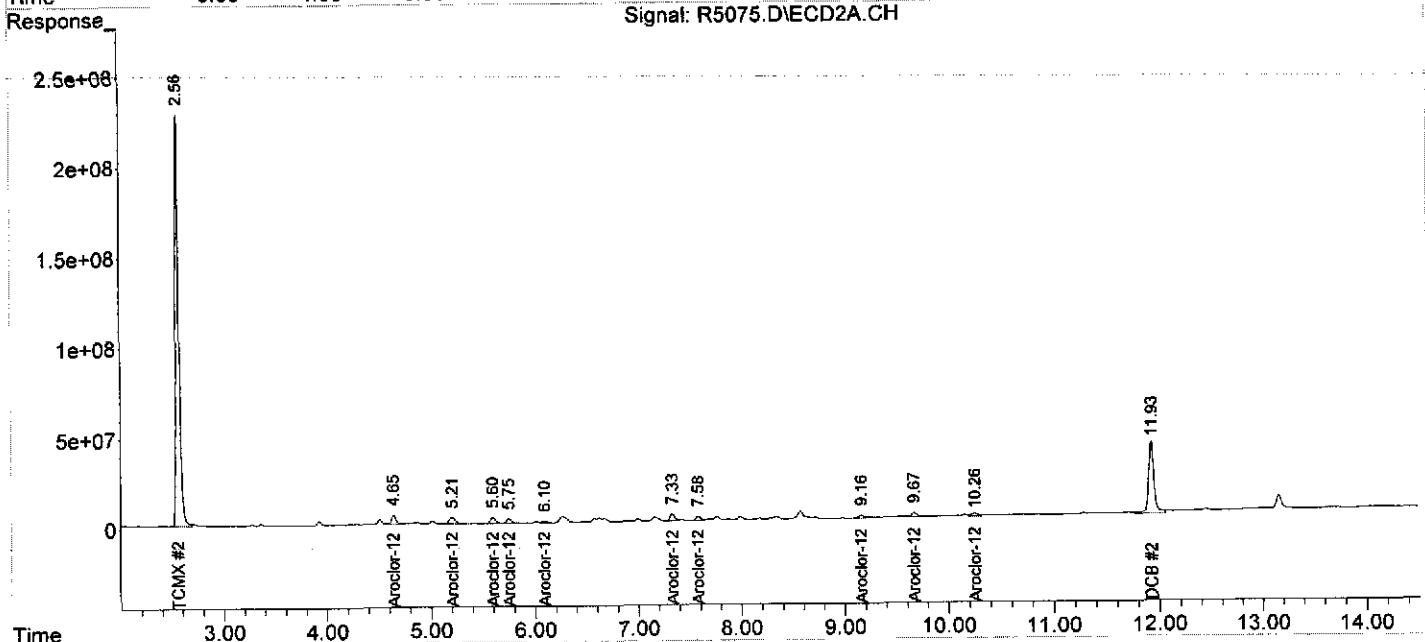
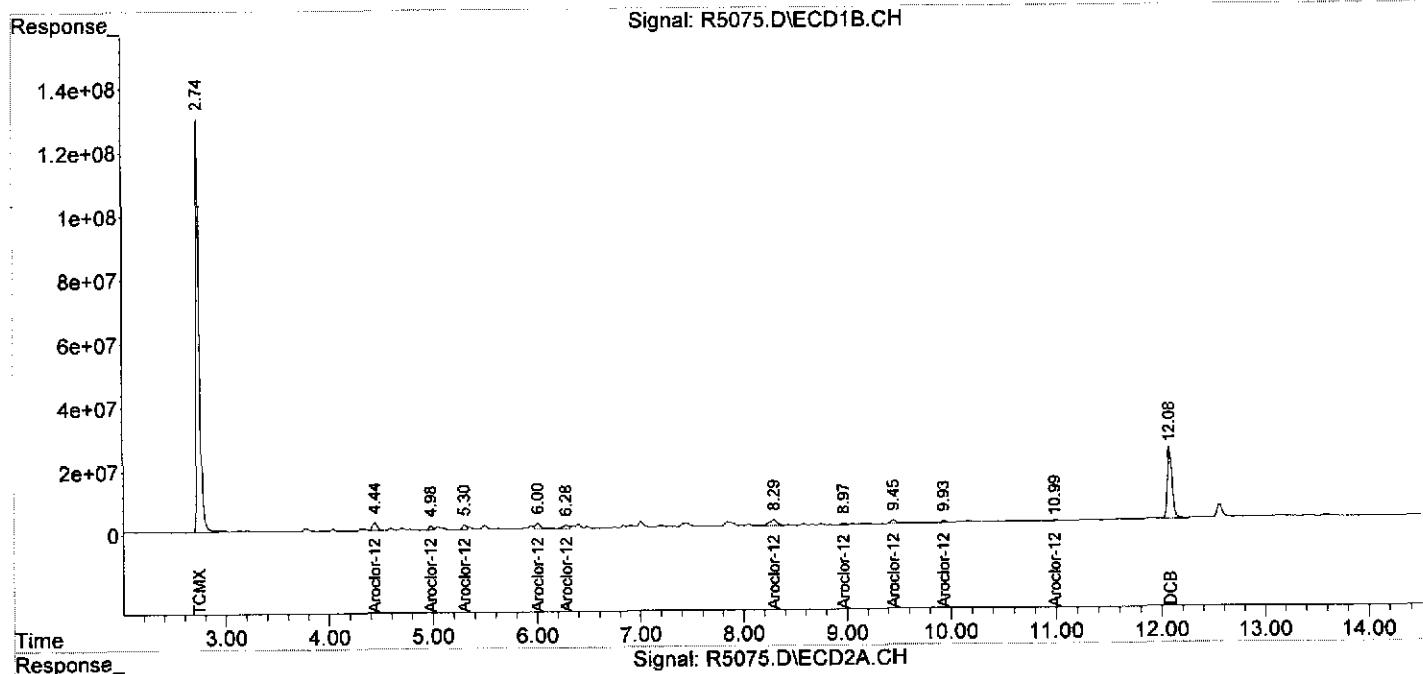
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
Data File : R5075.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 30 Oct 2013 15:45  
Operator : NG  
Sample : W-43 (3.,E13-10707-003,S,5.49g,76.0,20  
Misc : 131029-14,10/29/13,10/28/13,1  
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 31 13:17:15 2013  
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
Quant Title :  
QLast Update : Fri Oct 18 14:06:50 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
 Data File : R5076.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 30 Oct 2013 16:03  
 Operator : NG  
 Sample : W-43\_(4.,E13-10707-004,S,5.11g,31.0,20  
 Misc : 131029-14,10/29/13,10/28/13,1  
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 31 13:05:58 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
 Quant Title :  
 QLast Update : Fri Oct 18 14:06:50 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.56	2585.6E6	4790.9E6	214.292	182.444
Spiked Amount	200.000			Recovery	= 107.15%	91.22%
2) S DCB	12.08	11.93	737.5E6	1290.8E6	186.978	155.818
Spiked Amount	200.000			Recovery	= 93.49%	77.91%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	4.65	9961271	18937416	15.276	13.453
24) L6 Aroclor-1248 {2}	4.98	5.21	4093497	18236835	10.904	8.581
25) L6 Aroclor-1248 {3}	5.30	5.60	7681416	14096270	15.607	9.301 #
26) L6 Aroclor-1248 {4}	6.01	5.75	7349650	10465873	8.962	7.665
27) L6 Aroclor-1248 {5}	6.29	6.10	5334074	4367860	9.539	5.948 #
Sum Aroclor-1248			34419907	66104255	60.289	44.948
Average Aroclor-1248					12.058	8.990
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
33) L8 Aroclor-1260	8.29	7.33	9671106	14584263	11.661m	16.566m#
34) L8 Aroclor-1260 {2}	8.97	7.59	3745250	10820552	9.597	8.934
35) L8 Aroclor-1260 {3}	9.45	9.17	7646161	7243017	7.690m	7.093
36) L8 Aroclor-1260 {4}	9.93	9.67	3797662	18858249	7.723m	8.211m
37) L8 Aroclor-1260 {5}	10.99	10.25	1996068	11508820	8.222m	7.035m
Sum Aroclor-1260			26856247	63014902	44.892	47.838
Average Aroclor-1260					8.978	9.568
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
Data File : R5076.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 30 Oct 2013 16:03  
Operator : NG  
Sample : W-43\_(4.,E13-10707-004,S,5.11g,31.0,20  
Misc : 131029-14,10/29/13,10/28/13,1  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 31 13:05:58 2013  
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
Quant Title :  
QLast Update : Fri Oct 18 14:06:50 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
-----	-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----

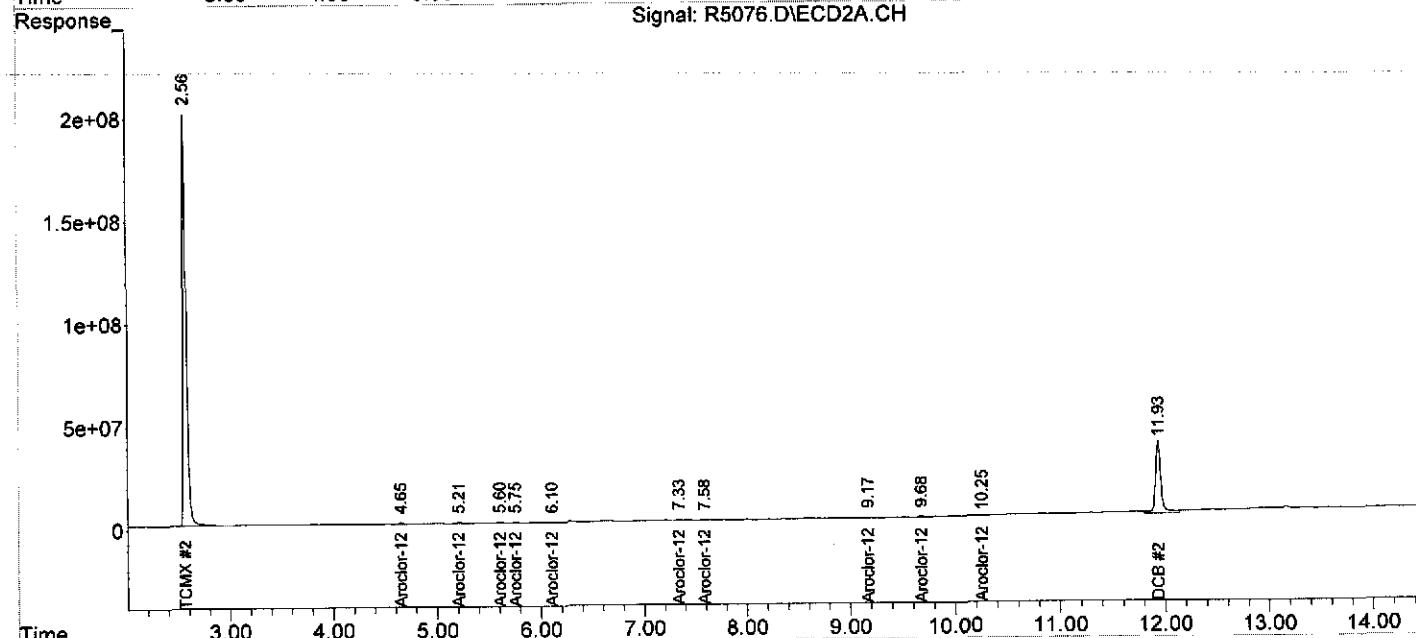
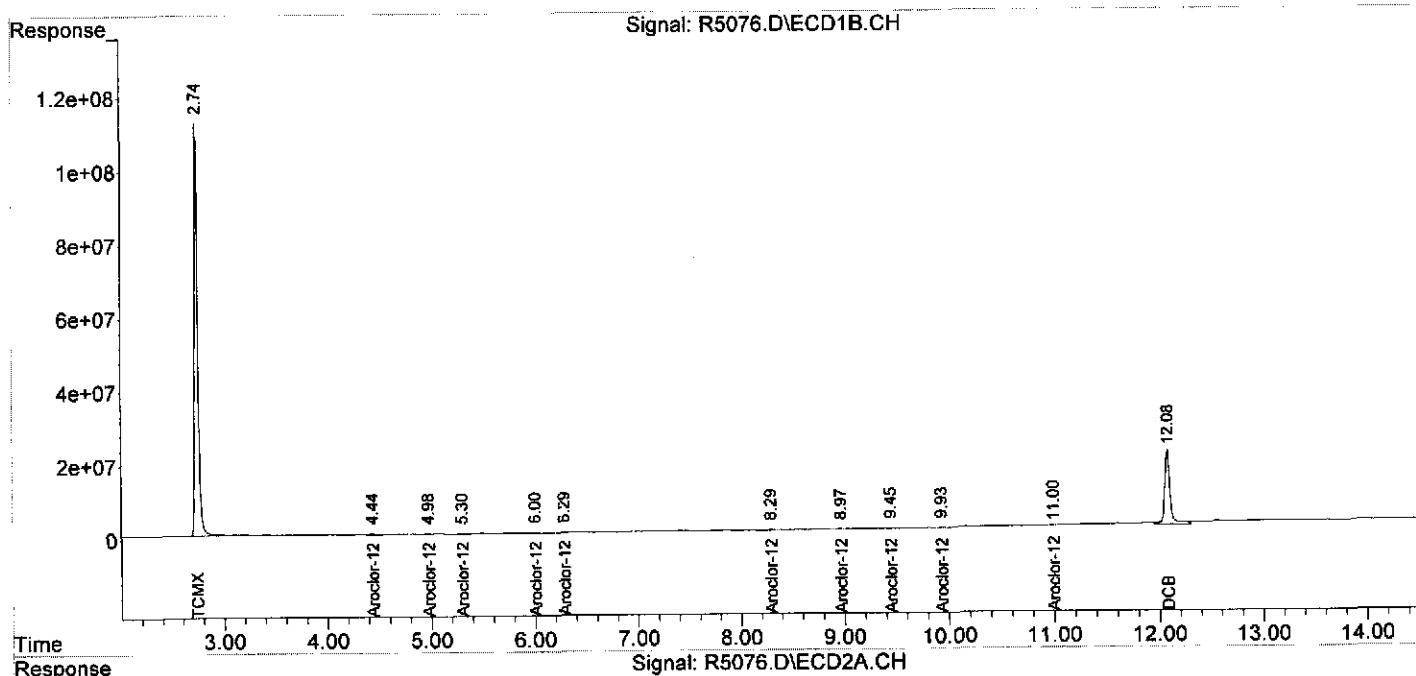
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
Data File : R5076.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 30 Oct 2013 16:03  
Operator : NG  
Sample : W-43 (4.,E13-10707-004,S,5.11g,31.0,20  
Misc : 131029-14,10/29/13,10/28/13,1  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 31 13:05:58 2013  
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
Quant Title :  
QLast Update : Fri Oct 18 14:06:50 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
 Data File : R5077.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 30 Oct 2013 16:20  
 Operator : NG  
 Sample : W-43\_(5.,E13-10707-005,S,5.50g,20.7,20  
 Misc : 131029-14,10/29/13,10/28/13,1  
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 31 13:06:46 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
 Quant Title :  
 QLast Update : Fri Oct 18 14:06:50 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

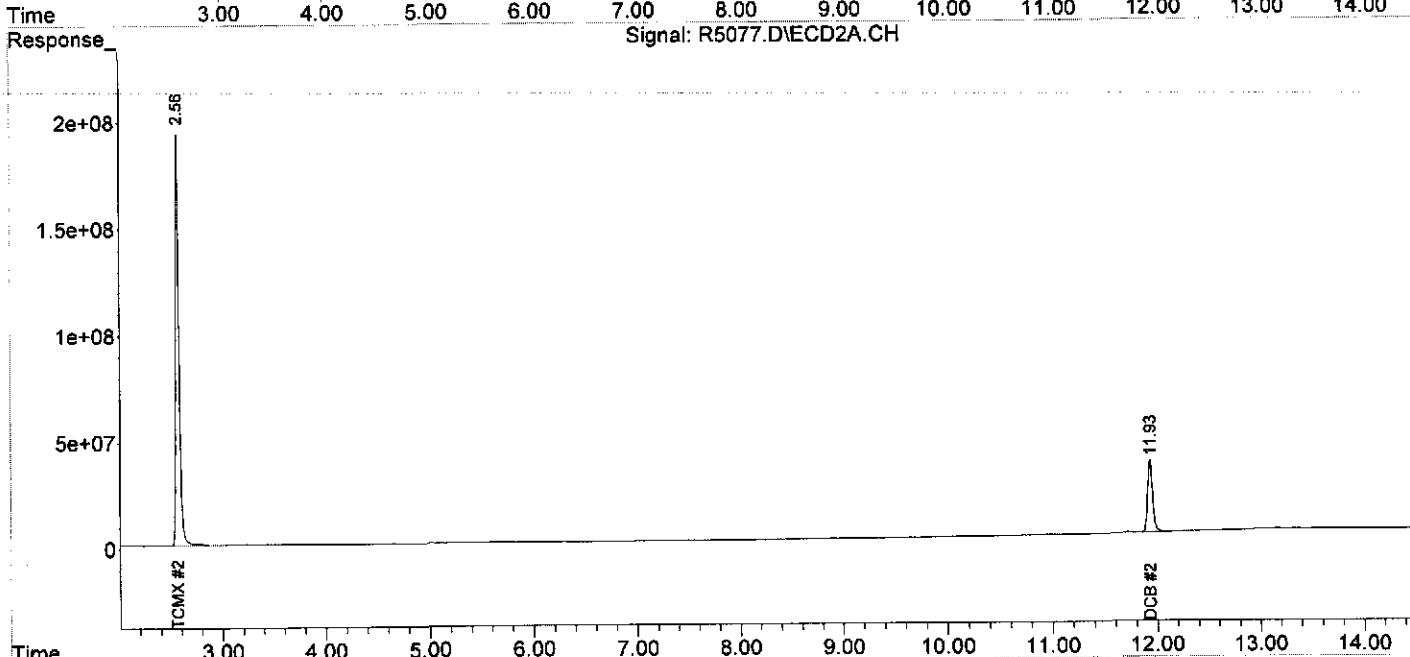
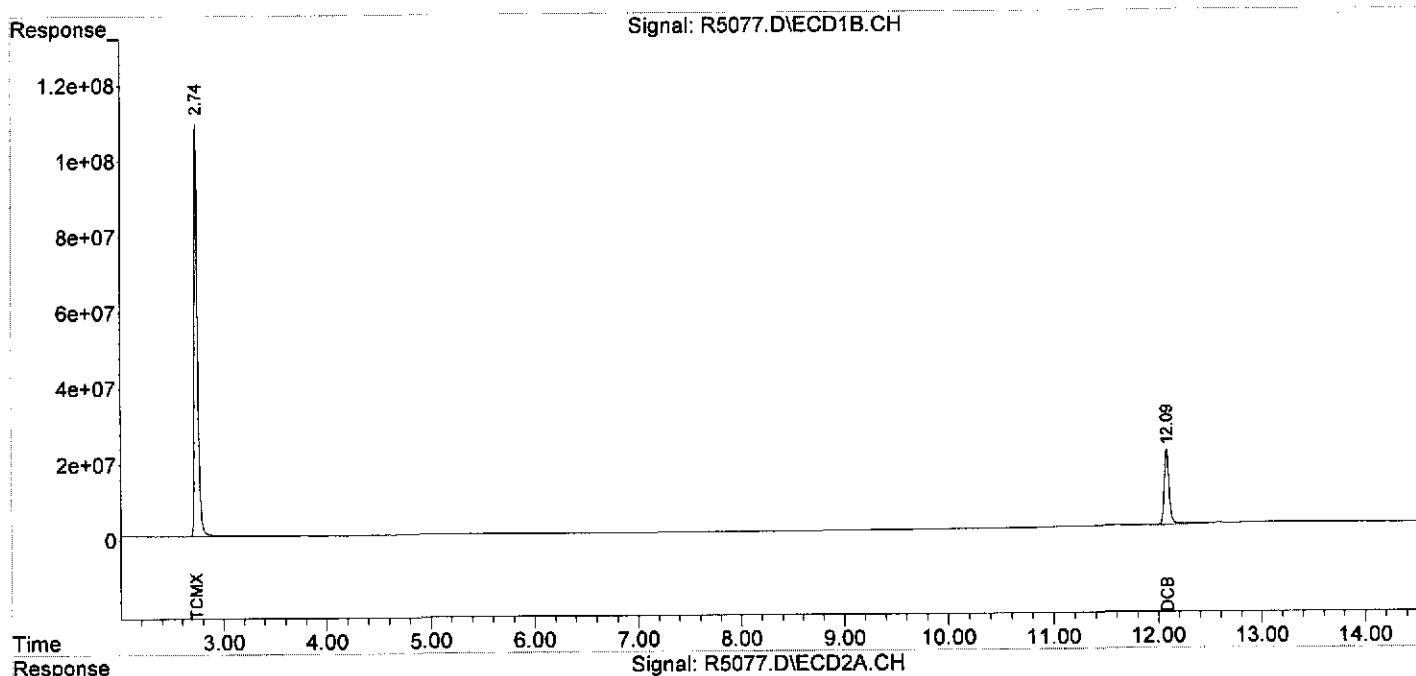
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.56	2516.4E6	4653.4E6	208.561	177.209
Spiked Amount	200.000			Recovery	= 104.28%	88.60%
2) S DCB	12.08	11.93	696.8E6	1147.7E6	176.657	138.538
Spiked Amount	200.000			Recovery	= 88.33%	69.27%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
Data File : R5077.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 30 Oct 2013 16:20  
Operator : NG  
Sample : W-43 (5.,E13-10707-005,S,5.50g,20.7,20  
Misc : 131029-14,10/29/13,10/28/13,1  
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 31 13:06:46 2013  
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
Quant Title :  
QLast Update : Fri Oct 18 14:06:50 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
 Data File : R5070.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 30 Oct 2013 14:18  
 Operator : NG  
 Sample : W-43\_(6.,E13-10707-006,S,5.20g,25.8,20  
 Misc : 131029-14,10/29/13,10/28/13,1  
 ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 30 17:08:45 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
 Quant Title :  
 QLast Update : Fri Oct 18 14:06:50 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

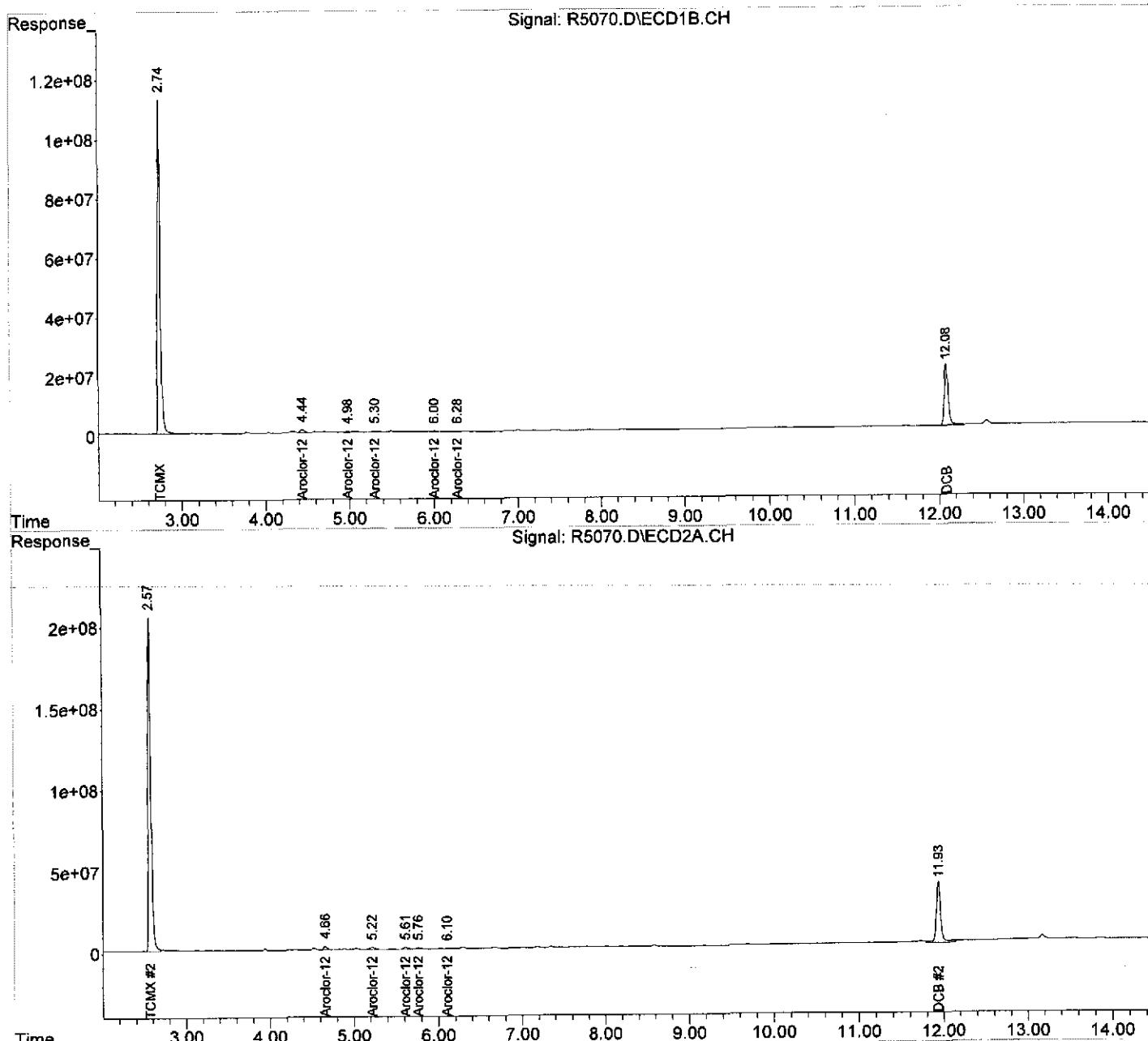
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.57	2508.9E6	4683.8E6	207.940	178.366
Spiked Amount	200.000			Recovery	= 103.97%	89.18%
2) S DCB	12.08	11.94	696.6E6	1368.0E6	176.618	165.137
Spiked Amount	200.000			Recovery	= 88.31%	82.57%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.43	4.66	34015629	64769946	52.166	46.013
24) L6 Aroclor-1248 {2}	4.98	5.22	10078802	53097702	26.847	24.983
25) L6 Aroclor-1248 {3}	5.30	5.61	13613606	41050021	27.661	27.085
26) L6 Areeler-1248 {4}	6.00	5.76	13711984	31838551	16.720	23.317 #
27) L6 Aroclor-1248 {5}	6.28	6.11	11076323	10830871	19.809	14.749 #
Sum Aroclor-1248			82496344	201.6E6	143.202	136.148
Average Aroclor-1248					28.640	27.230
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
Data File : R5070.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 30 Oct 2013 14:18  
Operator : NG  
Sample : W-43 (6.,E13-10707-006,S,5.20g,25.8,20  
Misc : 131029-14,10/29/13,10/28/13,1  
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 30 17:08:45 2013  
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
Quant Title :  
QLast Update : Fri Oct 18 14:06:50 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
 Data File : R5078.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 30 Oct 2013 16:38  
 Operator : NG  
 Sample : AA-48\_(0,E13-10707-007,S,5.17g,77.9,20  
 Misc : 131029-14,10/29/13,10/28/13,1  
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 31 13:13:35 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
 Quant Title :  
 QLast Update : Fri Oct 18 14:06:50 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

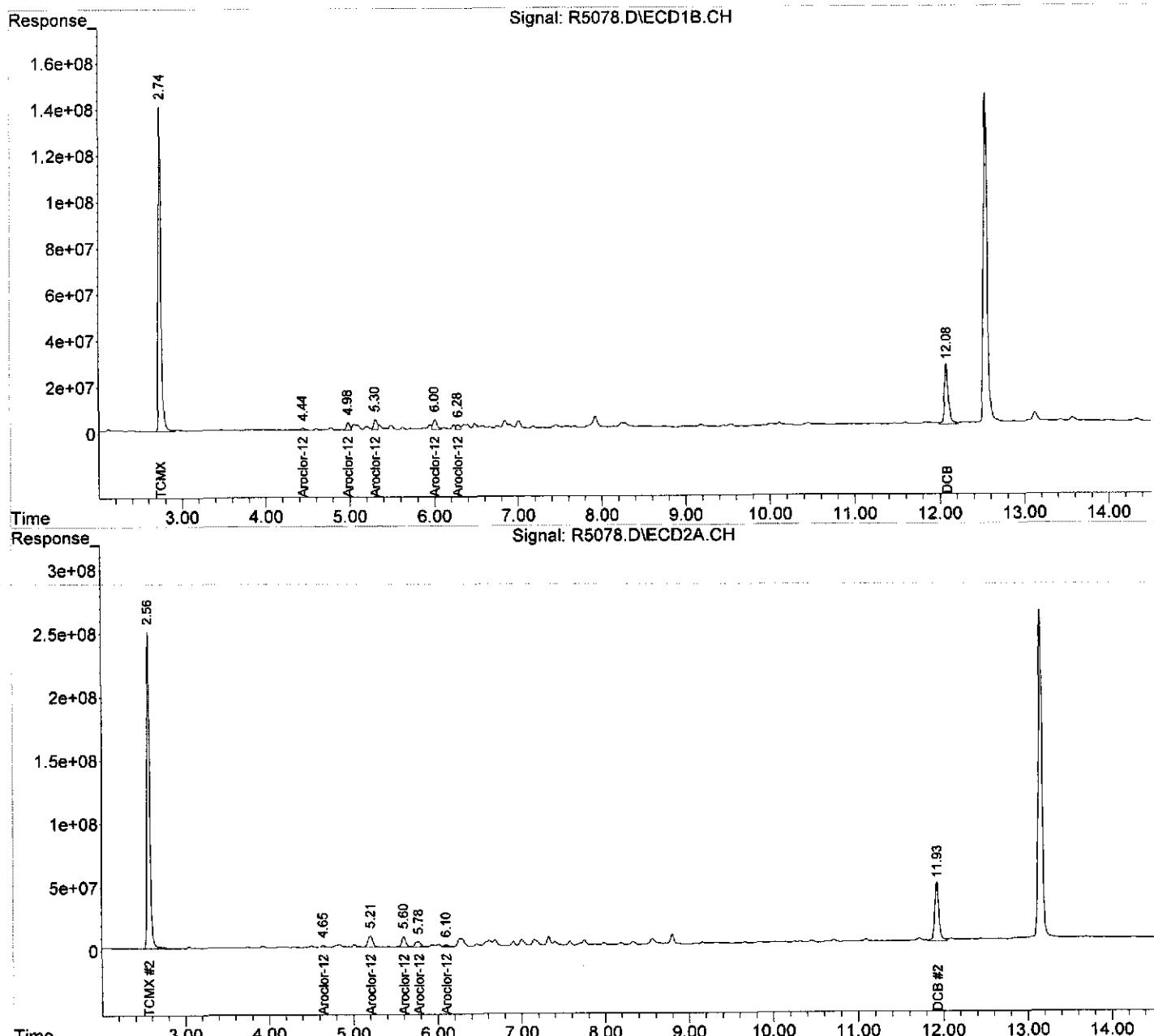
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.56	3101.8E6	5806.2E6	257.078	221.108
Spiked Amount	200.000			Recovery	= 128.54%	110.55%
2) S DCB	12.08	11.93	854.7E6	1620.0E6	216.684	195.561
Spiked Amount	200.000			Recovery	= 108.34%	97.78%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	4.65	33405884	44535798	51.230	31.638 #
24) L6 Aroclor-1248	{2}	4.98	5.21	86539095	354.6E6	230.515 166.835 #
25) L6 Aroclor-1248	{3}	5.30	5.60	119.5E6	282.2E6	242.829m 186.171
26) L6 Aroclor-1248	{4}	6.00	5.77	145.9E6	199.3E6	177.932 145.992
27) L6 Aroclor-1248	{5}	6.28	6.10	61907691	54629019	110.715 74.394 #
Sum Aroclor-1248				447.3E6	935.2E6	813.221 605.030
Average Aroclor-1248						162.644 121.006
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
Data File : R5078.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 30 Oct 2013 16:38  
Operator : NG  
Sample : AA-48\_(0,E13-10707-007,S,5.17g,77.9,20  
Misc : 131029-14,10/29/13,10/28/13,1  
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 31 13:13:35 2013  
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
Quant Title :  
QLast Update : Fri Oct 18 14:06:50 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
 Data File : R5079.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 30 Oct 2013 16:55  
 Operator : NG  
 Sample : AA-48\_1,E13-10707-008,S,5.91g,86.6,20  
 Misc : 131029-14,10/29/13,10/28/13,1  
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 31 13:20:04 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
 Quant Title :  
 QLast Update : Fri Oct 18 14:06:50 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

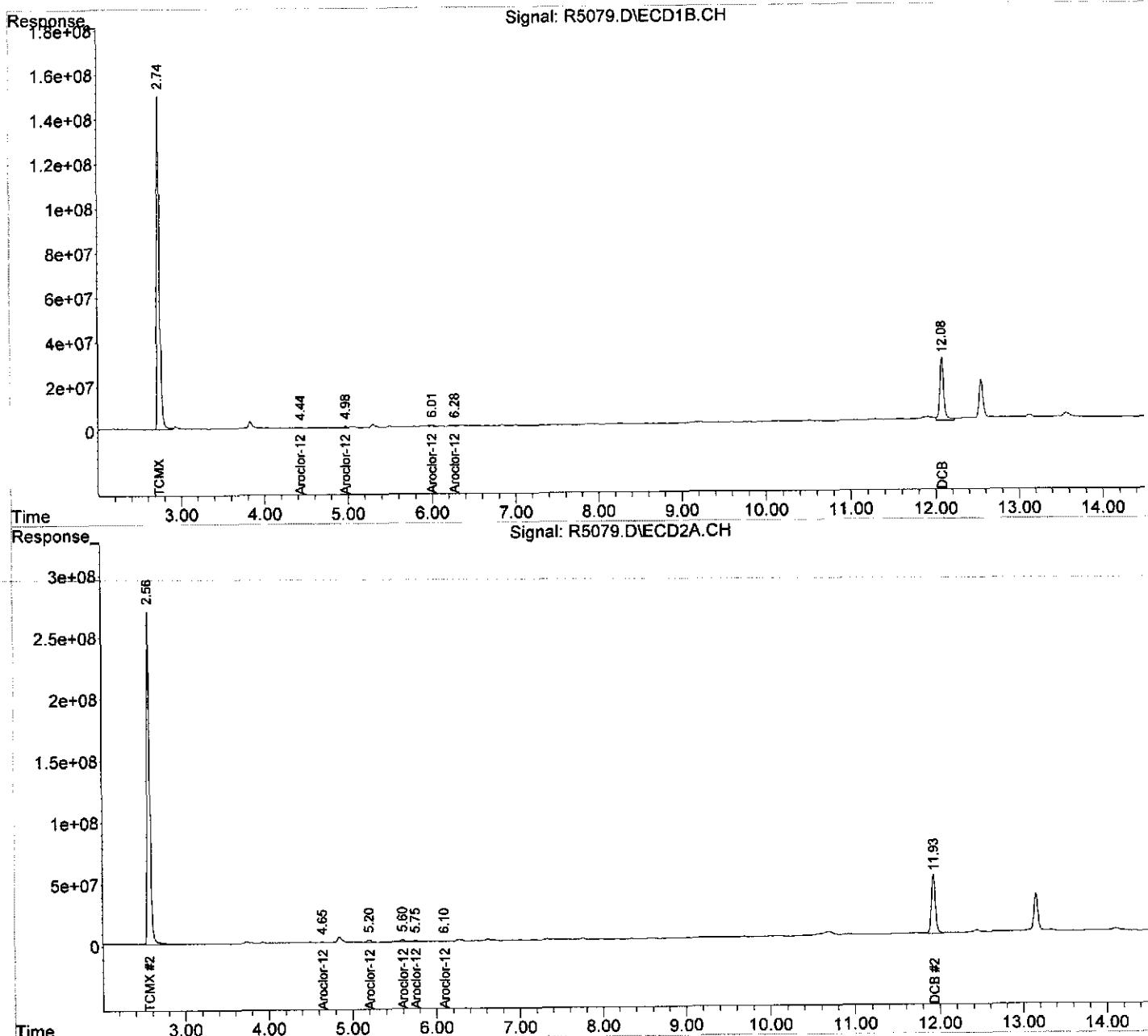
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2	
<hr/>								
	System Monitoring Compounds							
1) S	TCMX	2.74	2.56	3293.3E6	6217.3E6	272.948	236.765	
	Spiked Amount	200.000				Recovery =	136.47% 118.38%	
2) S	DCB	12.08	11.93	951.7E6	1589.6E6	241.289	191.885	
	Spiked Amount	200.000				Recovery =	120.64% 95.94%	
<hr/>								
Target Compounds								
	Sum Aroclor-1016			0	0	N.D.	N.D.	
	Average Aroclor-1016					0.000	0.000	
	Sum Aroclor-1221			0	0	N.D.	N.D.	
	Average Aroclor-1221					0.000	0.000	
	Sum Aroclor-1232			0	0	N.D.	N.D.	
	Average Aroclor-1232					0.000	0.000	
	Sum Aroclor-1242			0	0	N.D.	N.D.	
	Average Aroclor-1242					0.000	0.000	
23) L6	Aroclor-1248	4.44	4.65	7958172	12564880	12.204	8.926 #	
24) L6	Aroclor-1248	{2}	4.98	5.21	17409642	72918008	46.374	34.309 #
25) L6	Aroclor-1248	{3}	0.00	5.60	0	63801415	N.D. d	42.097 #
26) L6	Aroclor-1248	{4}	6.01	5.75	28490787	34288817	34.741	25.112 #
27) L6	Aroclor-1248	{5}	6.28	6.10	14640668	12551392	26.183	17.092 #
	Sum Aroclor-1248				68499269	196.1E6	119.503	127.536
	Average Aroclor-1248						29.876	25.507
	Sum Aroclor-1254			0	0	N.D.	N.D.	
	Average Aroclor-1254					0.000	0.000	
	Sum Aroclor-1260			0	0	N.D.	N.D.	
	Average Aroclor-1260					0.000	0.000	
	Sum Aroclor-1262			0	0	N.D.	N.D.	
	Average Aroclor-1262					0.000	0.000	
	Sum Aroclor-1268			0	0	N.D.	N.D.	
	Average Aroclor-1268					0.000	0.000	
<hr/>								

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
Data File : R5079.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 30 Oct 2013 16:55  
Operator : NG  
Sample : AA-48\_(1,E13-10707-008,S,5.91g,86.6,20  
Misc : 131029-14,10/29/13,10/28/13,1  
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 31 13:20:04 2013  
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
Quant Title :  
QLast Update : Fri Oct 18 14:06:50 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
 Data File : R5081.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 30 Oct 2013 17:30  
 Operator : NG  
 Sample : BB-48\_(0,E13-10707-009,S,5.81g,56.8,20  
 Misc : 131029-14,10/29/13,10/28/13,1  
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 31 14:39:04 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
 Quant Title :  
 QLast Update : Fri Oct 18 14:06:50 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

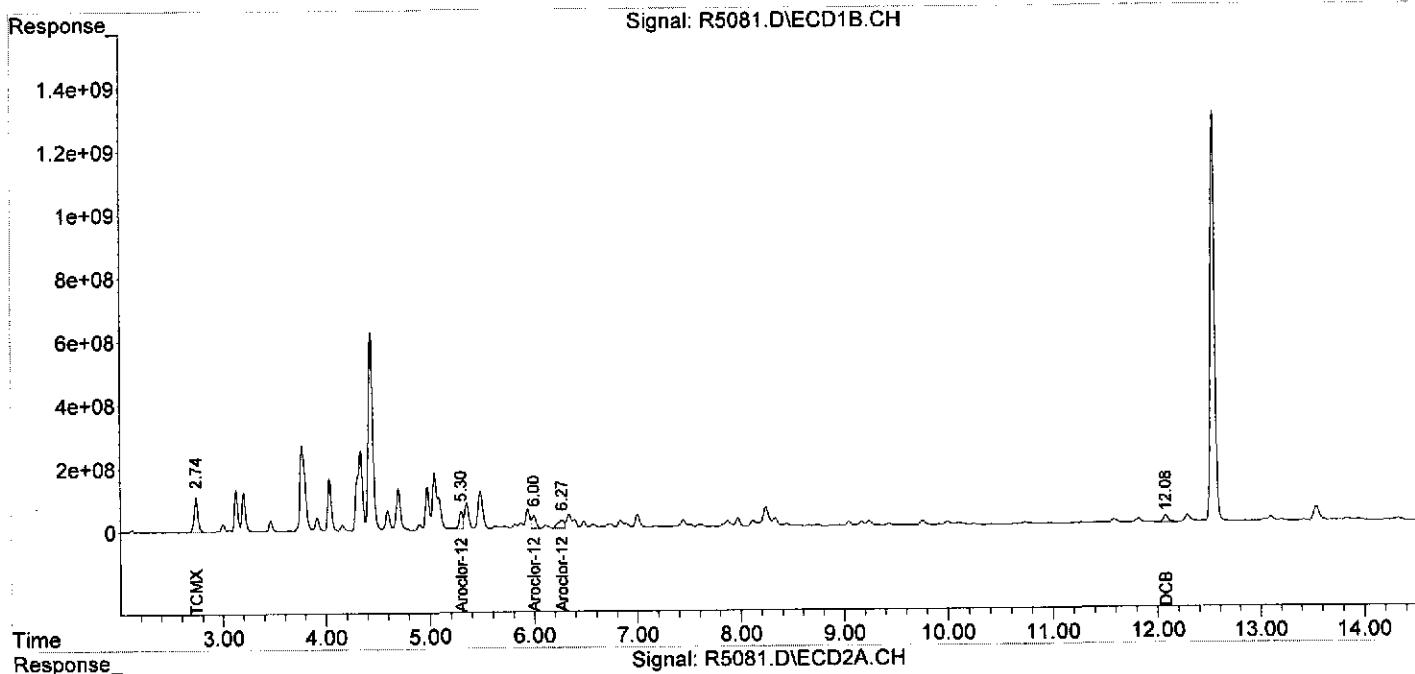
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.56	2768.9E6	4269.5E6	229.486	162.590 #
Spiked Amount	200.000				Recovery =	114.74% 81.30%
2) S DCB	12.08	11.93	909.2E6	1975.8E6	230.499	238.503
Spiked Amount	200.000				Recovery =	115.25% 119.25%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
25) L6 Aroclor-1248 {3}	5.30	5.61	1376.3E6	6468.7E6	2796.416	4268.143 #
26) L6 Aroclor-1248 {4}	6.00	5.75	1196.4E6	6407.3E6	1458.838	4692.474 #
27) L6 Aroclor-1248 {5}	6.27	6.09	1154.3E6	1026.9E6	2064.411	1398.399 #
Sum Aroclor-1248			3727.0E6	13902.9E6	6319.665	10359.016
Average Aroclor-1248					2106.555	3453.005
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

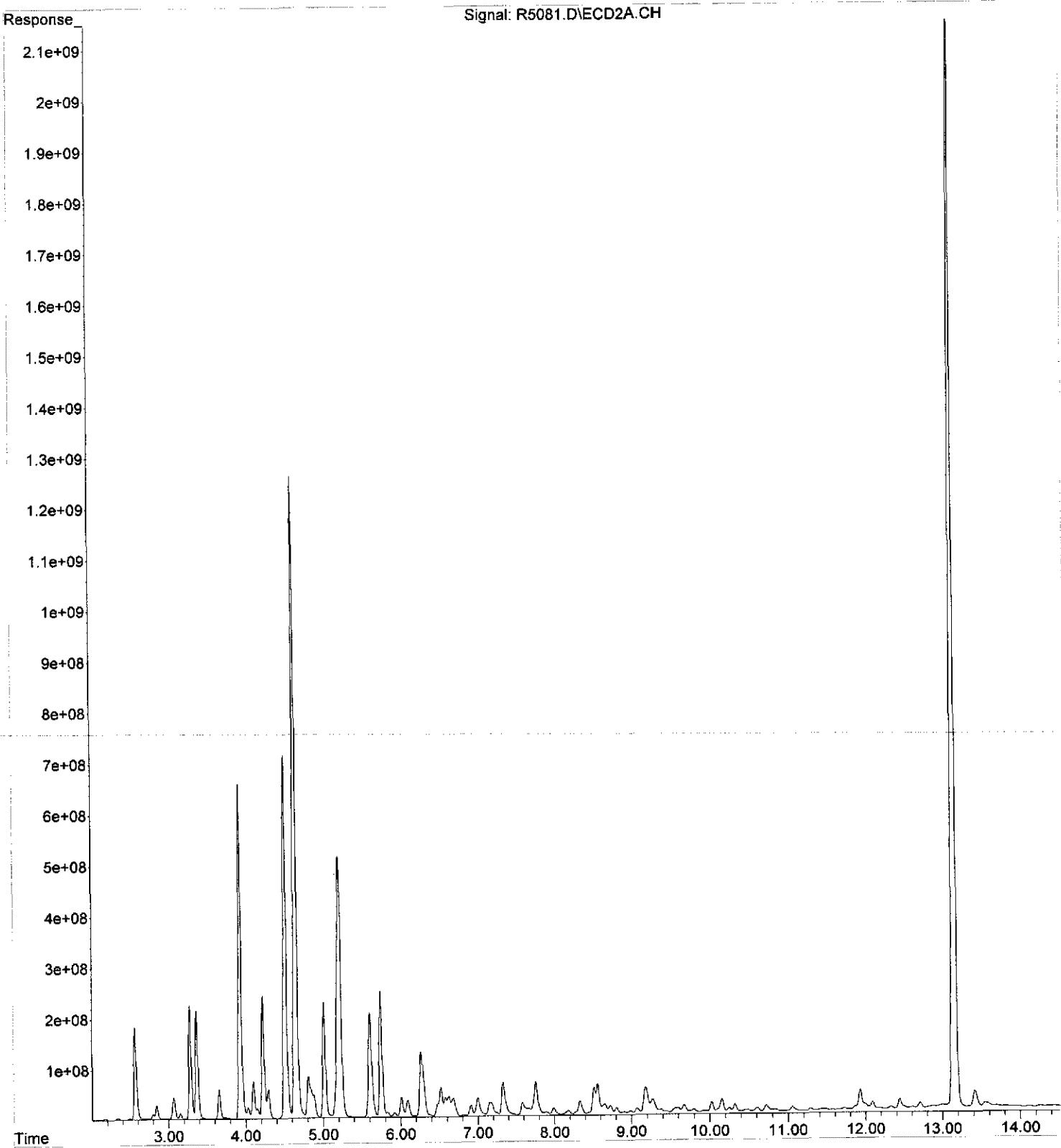
Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
Data File : R5081.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 30 Oct 2013 17:30  
Operator : NG  
Sample : BB-48\_(0,E13-10707-009,S,5.81g,56.8,20  
Misc : 131029-14,10/29/13,10/28/13,1  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 31 14:39:04 2013  
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
Quant Title :  
QLast Update : Fri Oct 18 14:06:50 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



File : C:\MSDChem\1\DATA\10-30-13\R5081.D  
Operator : NG  
Acquired : 30 Oct 2013 17:30 using AcqMethod RPCB1018.M  
Instrument : GC\_R  
Sample Name: BB-48\_(0,E13-10707-009,S,5.81g,56.8,20  
Misc Info : 131029-14,10/29/13,10/28/13,1  
Vial Number: 18



Data Path : C:\MSDCHEM\1\DATA\10-31-13\  
 Data File : R5095.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 31 Oct 2013 9:44  
 Operator : NG  
 Sample : BB-48\_(0,E13-10707-009DL,S,5.81g,56.8,20  
 Misc : 131029-14,10/29/13,10/28/13,5  
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 31 14:32:40 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
 Quant Title :  
 QLast Update : Fri Oct 18 14:06:50 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

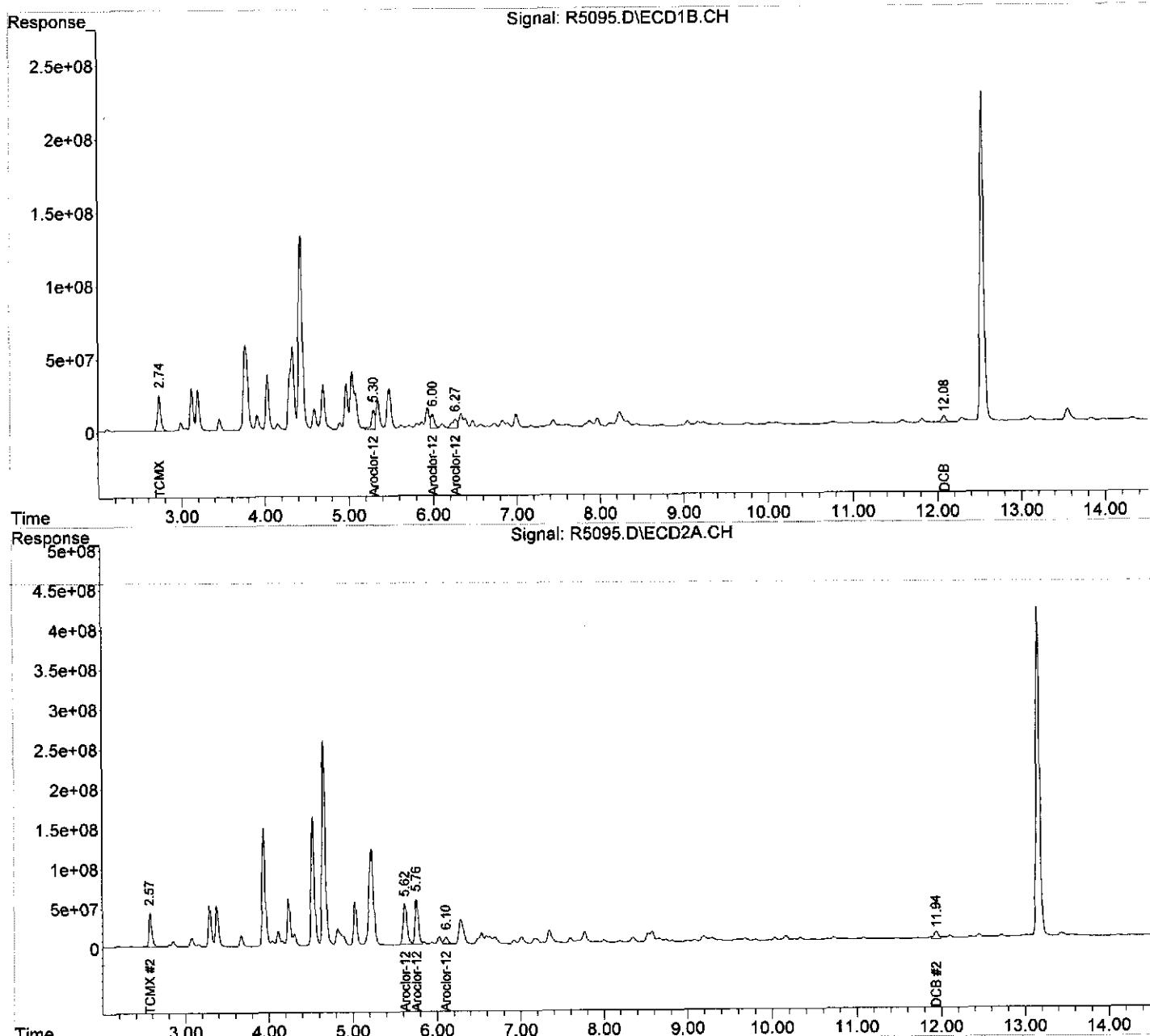
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.57	653.4E6	1070.6E6	54.152	40.770
Spiked Amount	200.000		Recovery	=	27.08%	20.39%
2) S DCB	12.08	11.94	194.8E6	343.0E6	49.388	41.404m
Spiked Amount	200.000		Recovery	=	24.69%	20.70%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
25) L6 Aroclor-1248 {3}	5.30	5.62	369.3E6	1684.7E6	750.450	1111.576 #
26) L6 Aroclor-1248 {4}	6.00	5.76	295.4E6	1572.7E6	360.221	1151.771 #
27) L6 Aroclor-1248 {5}	6.27	6.10	261.6E6	279.5E6	467.894	380.659
Sum Aroclor-1248			926.4E6	3536.9E6	1578.565	2644.006
Average Aroclor-1248					526.188	881.335
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-31-13\  
Data File : R5095.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 31 Oct 2013 9:44  
Operator : NG  
Sample : BB-48\_(0,E13-10707-009DL,S,5.81g,56.8,20  
Misc : 131029-14,10/29/13,10/28/13,5  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 31 14:32:40 2013  
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
Quant Title :  
QLast Update : Fri Oct 18 14:06:50 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
 Data File : R5082.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 30 Oct 2013 18:05  
 Operator : NG  
 Sample : BB-48\_(1,E13-10707-010,S,5.70g,45.8,20  
 Misc : 131029-14,10/29/13,10/28/13,1  
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 31 14:39:47 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
 Quant Title :  
 QLast Update : Fri Oct 18 14:06:50 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

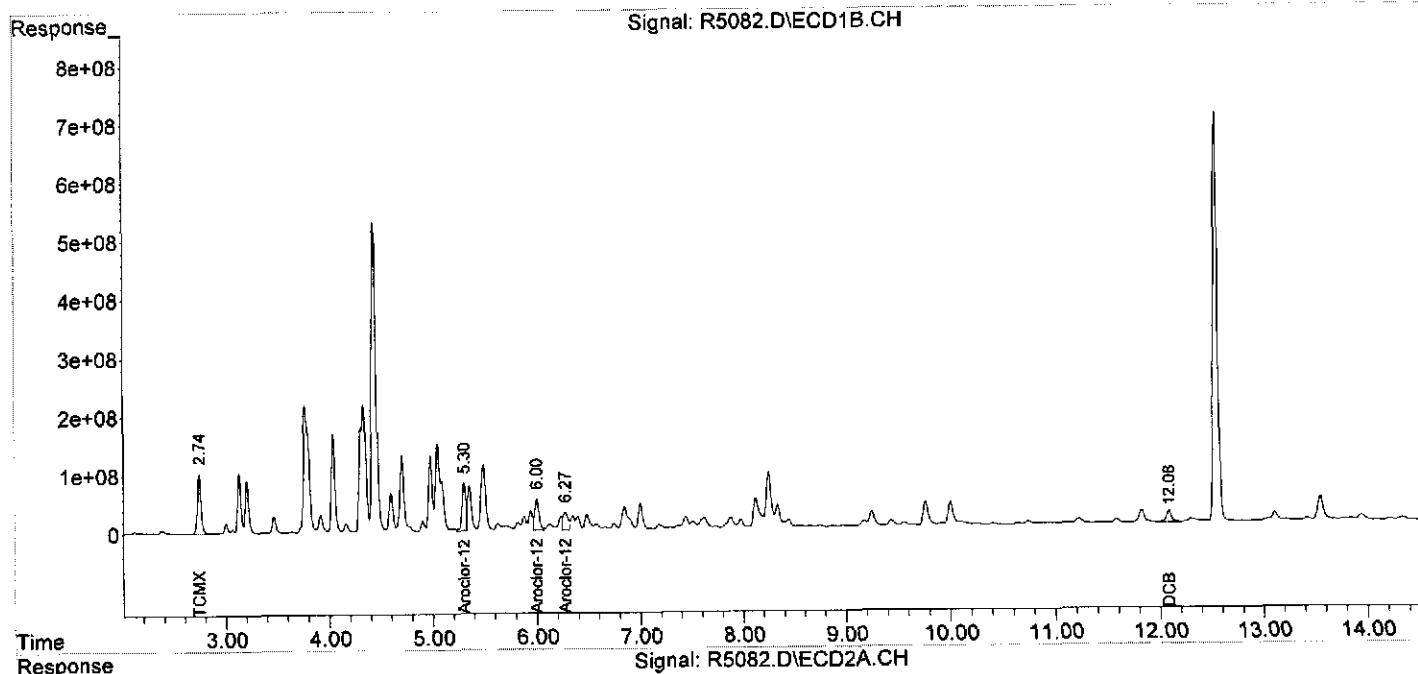
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.56	2467.8E6	4041.0E6	204.536	153.889
Spiked Amount	200.000			Recovery	= 102.27%	76.94%
2) S DCB	12.08	11.93	779.1E6	1584.6E6	197.516	191.283m
Spiked Amount	200.000			Recovery	= 98.76%	95.64%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
25) L6 Aroclor-1248 {3}	5.30	5.60	2097.0E6	7157.0E6	4260.735	4722.283
26) L6 Aroclor-1248 {4}	6.00	5.75	1544.4E6	6104.5E6	1883.237	4470.691 #
27) L6 Aroclor-1248 {5}	6.27	6.09	1042.7E6	1323.2E6	1864.832	1801.925
Sum Aroclor-1248			4684.1E6	14584.7E6	8008.805	10994.900
Average Aroclor-1248					2669.602	3664.967
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
Data File : R5082.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 30 Oct 2013 18:05  
Operator : NG  
Sample : BB-48\_(1,E13-10707-010,S,5.70g,45.8,20  
Misc : 131029-14,10/29/13,10/28/13,1  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 31 14:39:47 2013  
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
Quant Title :  
QLast Update : Fri Oct 18 14:06:50 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-31-13\  
 Data File : R5096.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 31 Oct 2013 10:02  
 Operator : NG  
 Sample : BB-48 (1,E13-10707-010DL,S,5.70g,45.8,20  
 Misc : 131029-14,10/29/13,10/28/13,5  
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 31 14:41:14 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
 Quant Title :  
 QLast Update : Fri Oct 18 14:06:50 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.56	601.6E6	1000.4E6	49.863	38.097
Spiked Amount	200.000		Recovery	=	24.93%	19.05%
2) S DCB	12.08	11.93	202.7E6	409.9E6	51.402	49.485m
Spiked Amount	200.000		Recovery	=	25.70%	24.74%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
25) L6 Aroclor-1248 {3}	5.30	5.60	522.1E6	1863.6E6	1060.797	1229.640
26) L6 Aroclor-1248 {4}	6.00	5.75	394.8E6	1545.2E6	481.379	1131.644 #
27) L6 Aroclor-1248 {5}	6.27	6.09	242.5E6	359.9E6	433.655	490.106
Sum Aroclor-1248			1159.3E6	3768.7E6	1975.830	2851.390
Average Aroclor-1248					658.610	950.463
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

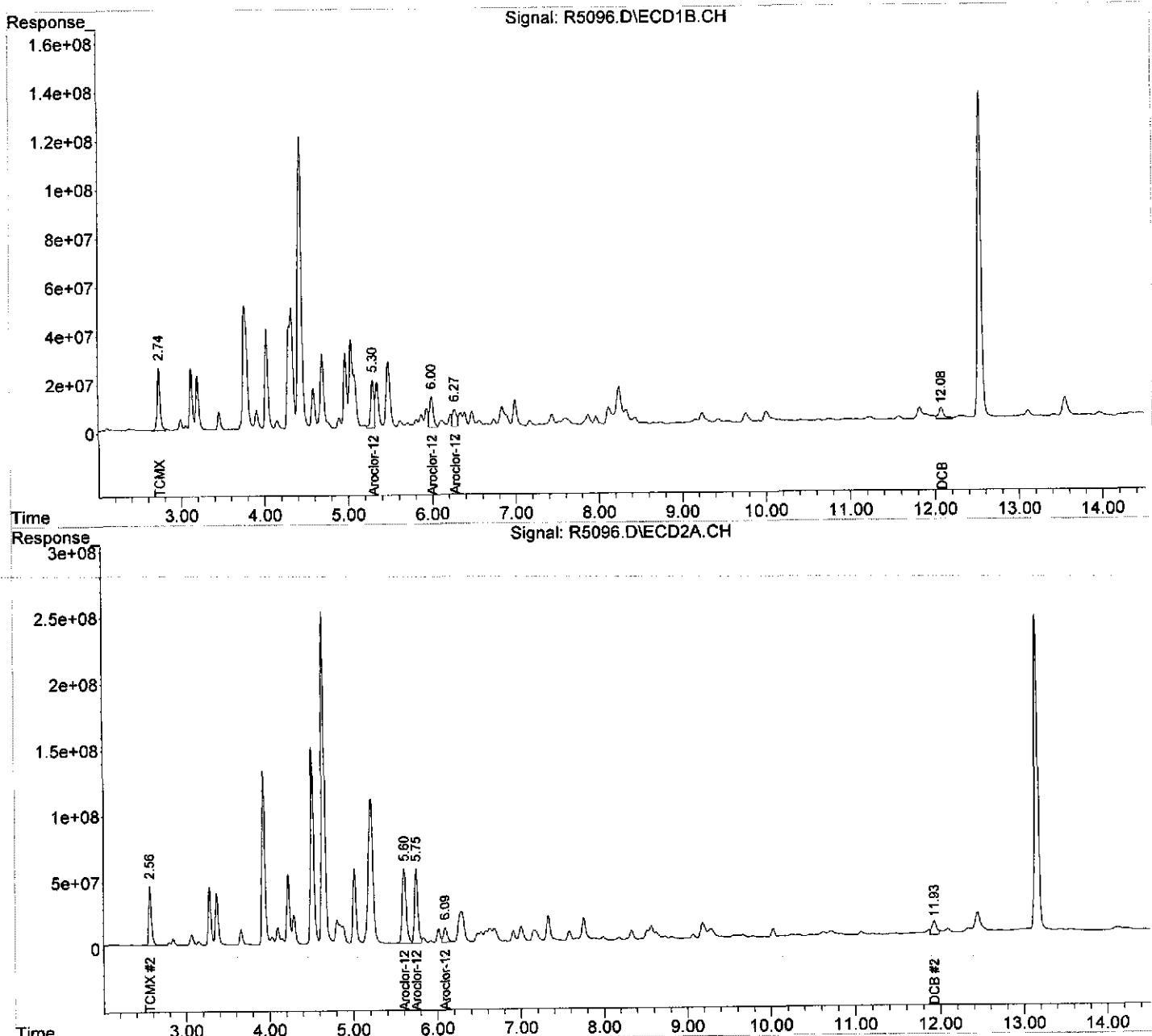
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-31-13\  
Data File : R5096.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 31 Oct 2013 10:02  
Operator : NG  
Sample : BB-48\_(1,E13-10707-010DL,S,5.70g,45.8,20  
Misc : 131029-14,10/29/13,10/28/13,5  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 31 14:41:14 2013  
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
Quant Title :  
QLast Update : Fri Oct 18 14:06:50 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
 Data File : R5083.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 30 Oct 2013 18:40  
 Operator : NG  
 Sample : CC-46S\_(,E13-10707-011,S,5.34g,88.8,20  
 Misc : 131029-14,10/29/13,10/28/13,1  
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 31 13:18:44 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
 Quant Title :  
 QLast Update : Fri Oct 18 14:06:50 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

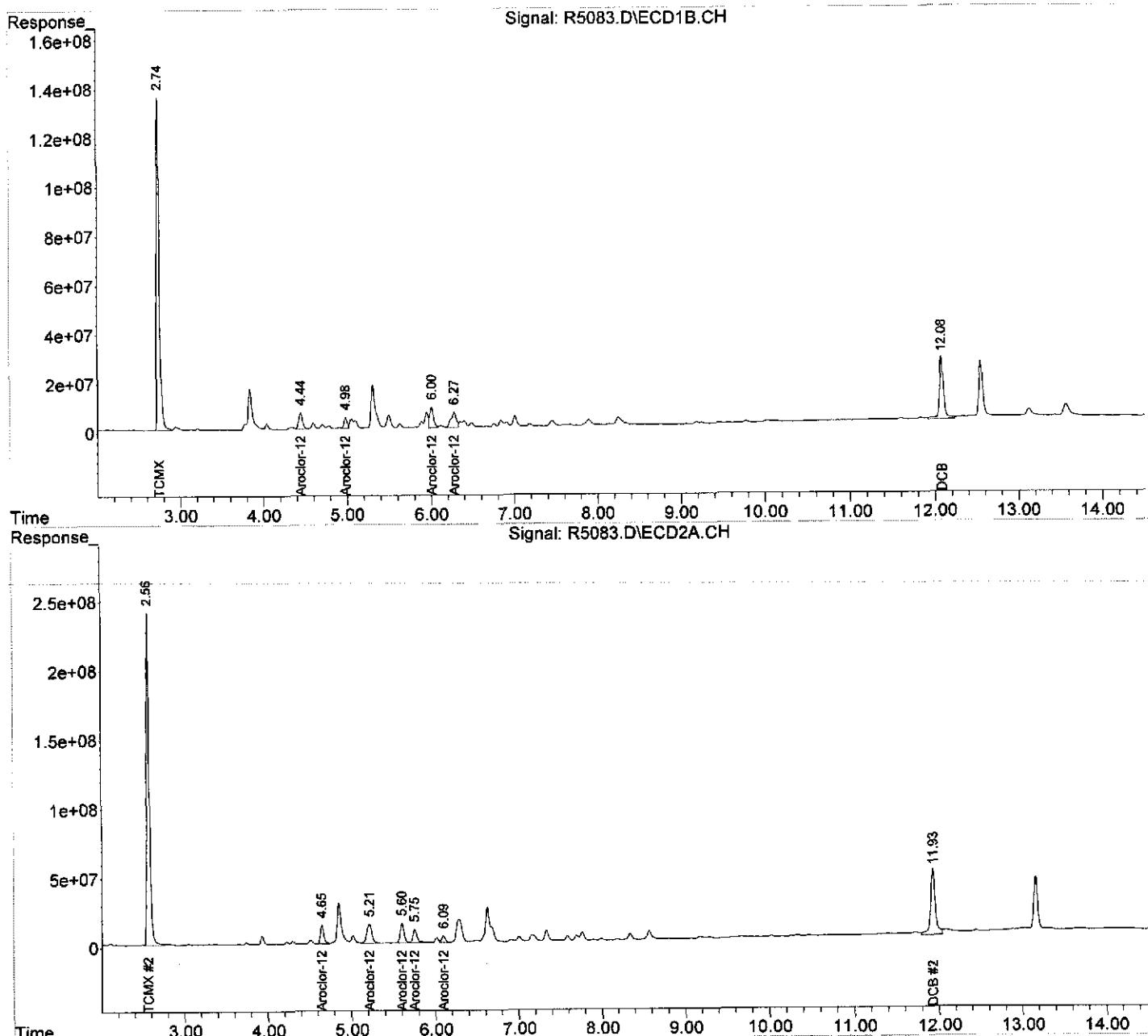
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.56	3069.8E6	5715.1E6	254.430	217.642
Spiked Amount	200.000			Recovery	= 127.22%	108.82%
2) S DCB	12.08	11.93	879.5E6	1873.8E6	222.974	226.193
Spiked Amount	200.000			Recovery	= 111.49%	113.10%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	4.65	221.9E6	375.0E6	340.241	266.376
24) L6 Aroclor-1248 {2}	4.98	5.21	115.1E6	586.8E6	306.587	276.082
25) L6 Aroclor-1248 {3}	0.00	5.60	0	458.0E6	N.D. d	302.193 #
26) L6 Aroclor-1248 {4}	6.00	5.75	277.3E6	332.0E6	338.136	243.120 #
27) L6 Aroclor-1248 {5}	6.27	6.09	282.3E6	147.4E6	504.853	200.736 #
Sum Aroclor-1248			896.6E6	1899.1E6	1489.817	1288.507
Average Aroclor-1248					372.454	257.701
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
Data File : R5083.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 30 Oct 2013 18:40  
Operator : NG  
Sample : CC-46S\_(,E13-10707-011,S,5.34g,88.8,20  
Misc : 131029-14,10/29/13,10/28/13,1  
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 31 13:18:44 2013  
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
Quant Title :  
QLast Update : Fri Oct 18 14:06:50 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
 Data File : R5084.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 30 Oct 2013 18:57  
 Operator : NG  
 Sample : CC-46S\_(,E13-10707-012,S,5.61g,62.3,20  
 Misc : 131029-14,10/29/13,10/28/13,1  
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 31 13:24:52 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
 Quant Title :  
 QLast Update : Fri Oct 18 14:06:50 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

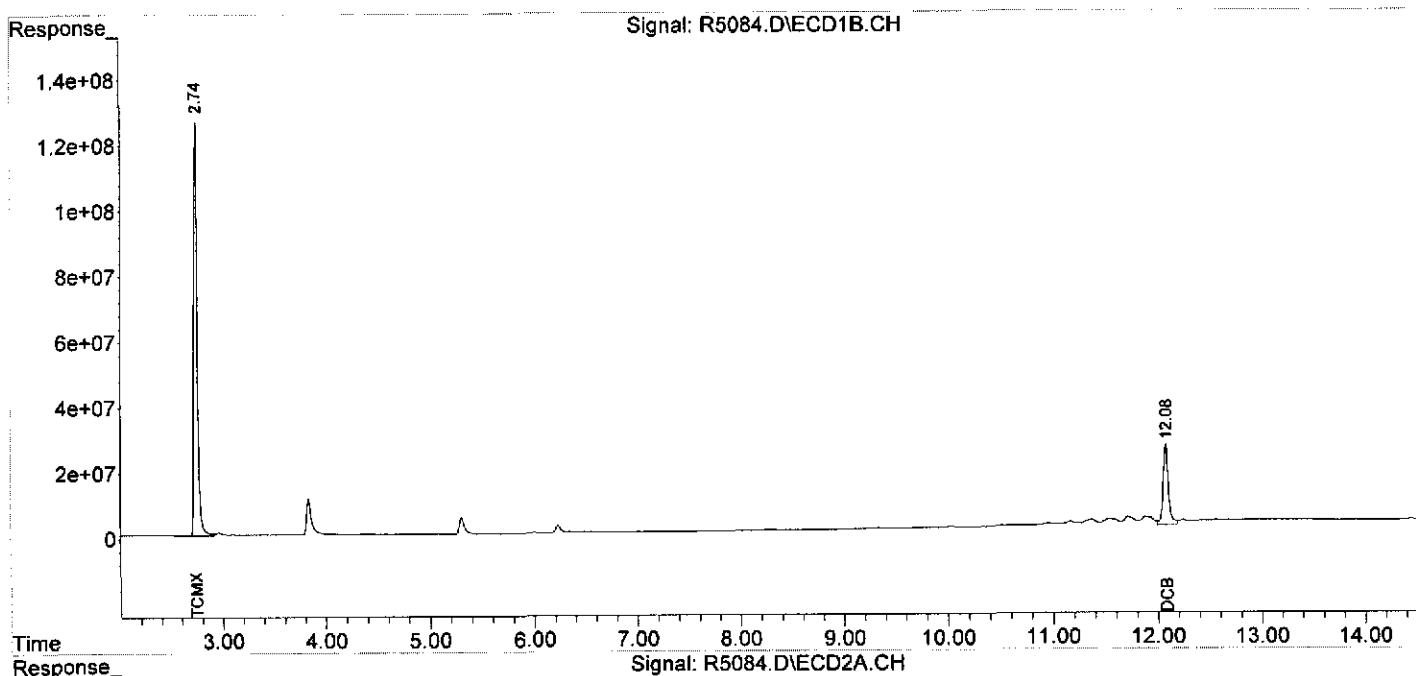
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.56	2913.4E6	5398.8E6	241.464	205.594
Spiked Amount	200.000			Recovery	= 120.73%	102.80%
2) S DCB	12.08	11.93	860.4E6	1459.3E6	218.147	176.163
Spiked Amount	200.000			Recovery	= 109.07%	88.08%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
Data File : R5084.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 30 Oct 2013 18:57  
Operator : NG  
Sample : CC-46S\_(,E13-10707-012,S,5.61g,62.3,20  
Misc : 131029-14,10/29/13,10/28/13,1  
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 31 13:24:52 2013  
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
Quant Title :  
QLast Update : Fri Oct 18 14:06:50 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
 Data File : R5085.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 30 Oct 2013 19:15  
 Operator : NG  
 Sample : AA-45N\_(,E13-10707-013,S,5.01g,82.8,20  
 Misc : 131029-14,10/29/13,10/28/13,1  
 ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 31 13:28:21 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
 Quant Title :  
 QLast Update : Fri Oct 18 14:06:50 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

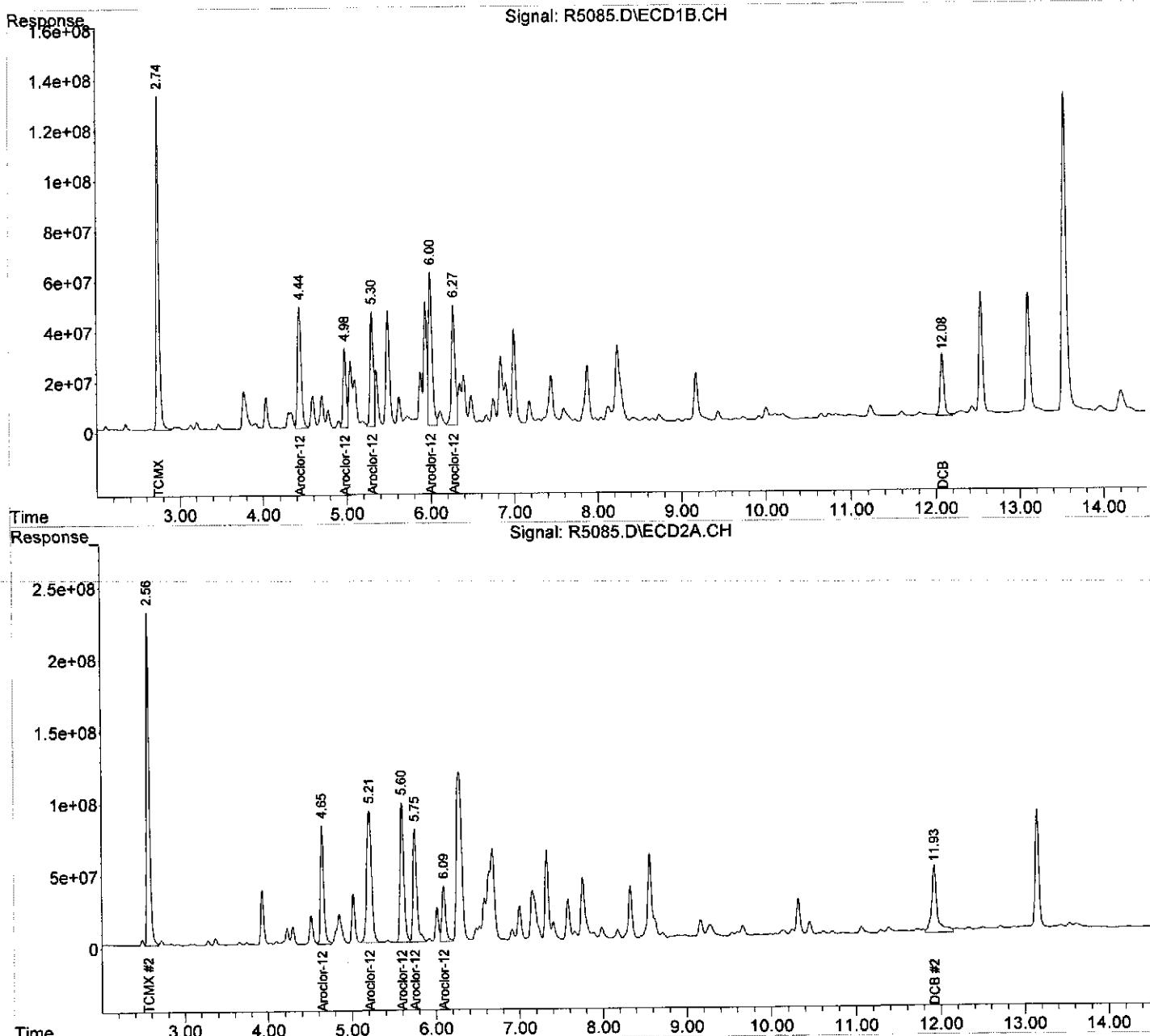
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.56	2956.8E6	5350.3E6	245.057	203.750
Spiked Amount	200.000			Recovery	= 122.53%	101.88%
2) S DCB	12.08	11.93	769.2E6	2134.7E6	195.016	257.684 #
Spiked Amount	200.000			Recovery	= 97.51%	128.84%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	4.65	1508.8E6	2237.9E6	2313.851	1589.817 #
24) L6 Aroclor-1248 {2}	4.98	5.21	794.2E6	3651.0E6	2115.437	1717.856
25) L6 Aroclor-1248 {3}	5.30	5.60	1221.9E6	3003.2E6	2482.678	1981.570
26) L6 Aroclor-1248 {4}	6.00	5.75	1818.6E6	2488.6E6	2217.636	1822.534
27) L6 Aroclor-1248 {5}	6.27	6.09	1452.1E6	1173.3E6	2596.878	1597.780 #
Sum Aroclor-1248			6795.6E6	12554.0E6	11726.479	8709.557
Average Aroclor-1248					2345.296	1741.911
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
Data File : R5085.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 30 Oct 2013 19:15  
Operator : NG  
Sample : AA-45N\_(,E13-10707-013,S,5.01g,82.8,20  
Misc : 131029-14,10/29/13,10/28/13,1  
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 31 13:28:21 2013  
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
Quant Title :  
QLast Update : Fri Oct 18 14:06:50 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
 Data File : R5086.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 30 Oct 2013 19:50  
 Operator : NG  
 Sample : AA-45N\_-, E13-10707-014, S, 5.70g, 84.7, 20  
 Misc : 131029-14, 10/29/13, 10/28/13, 1  
 ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 31 13:43:49 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
 Quant Title :  
 QLast Update : Fri Oct 18 14:06:50 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

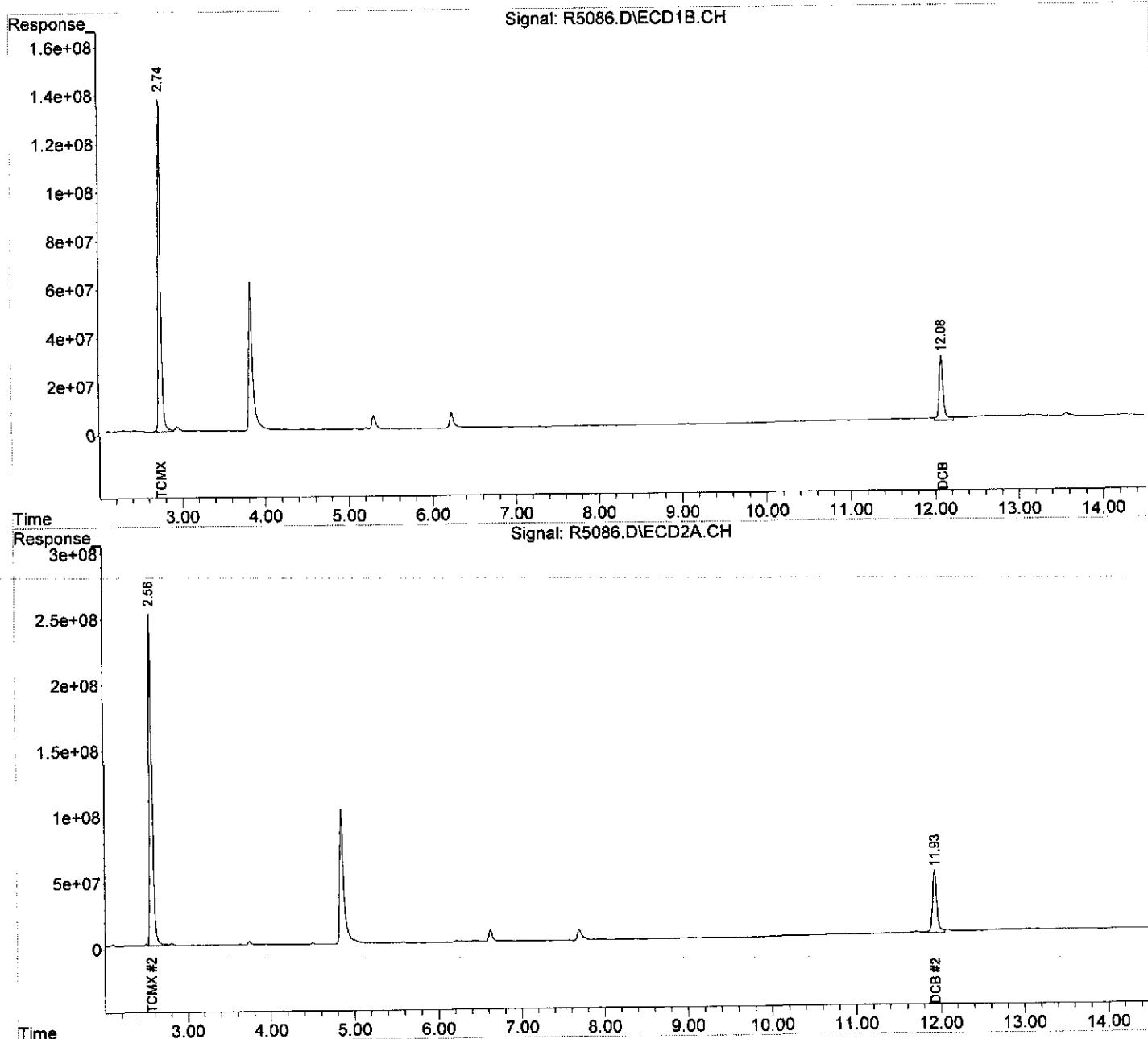
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.57	3087.9E6	5914.4E6	255.927	225.232
Spiked Amount	200.000			Recovery	= 127.96%	112.62%
2) S DCB	12.08	11.93	940.6E6	1660.5E6	238.472	200.444
Spiked Amount	200.000			Recovery	= 119.24%	100.22%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
Data File : R5086.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 30 Oct 2013 19:50  
Operator : NG  
Sample : AA-45N\_(,E13-10707-014,S,5.70g,84.7,20  
Misc : 131029-14,10/29/13,10/28/13,1  
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 31 13:43:49 2013  
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
Quant Title :  
QLast Update : Fri Oct 18 14:06:50 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
 Data File : R5087.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 30 Oct 2013 20:07  
 Operator : NG  
 Sample : AA-45N\_(,E13-10707-015,S,5.24g,81.1,20  
 Misc : 131029-14,10/29/13,10/28/13,1  
 ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 31 13:41:06 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
 Quant Title :  
 QLast Update : Fri Oct 18 14:06:50 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

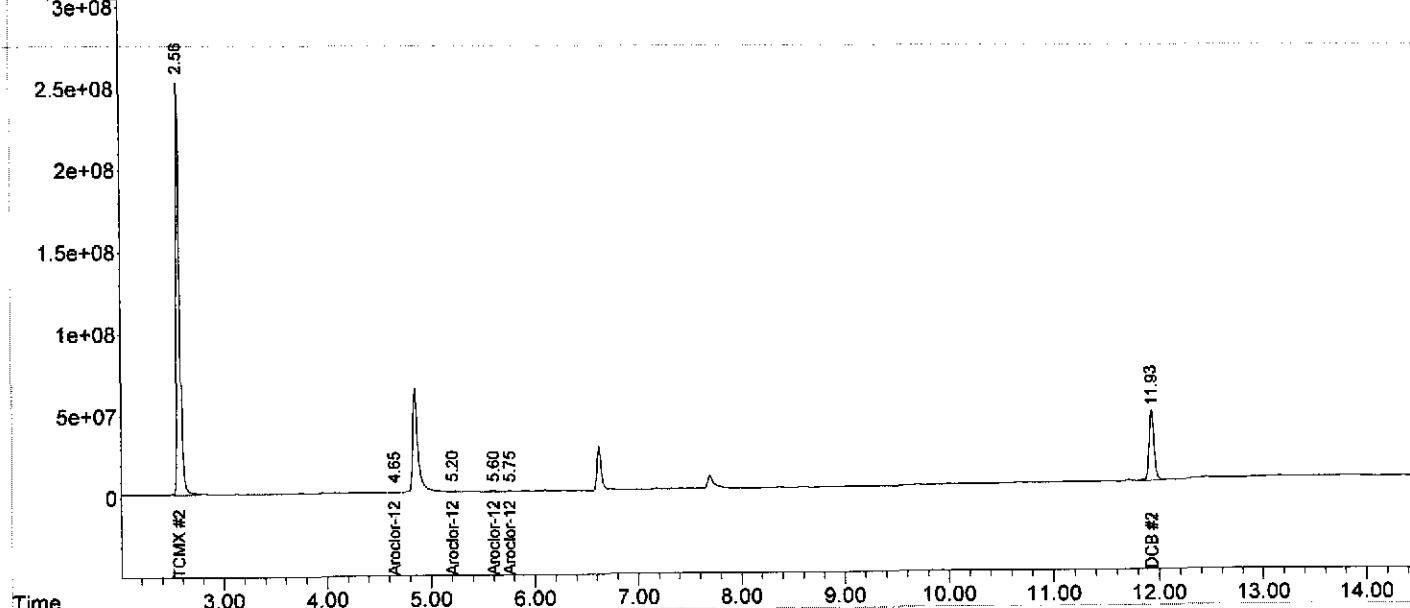
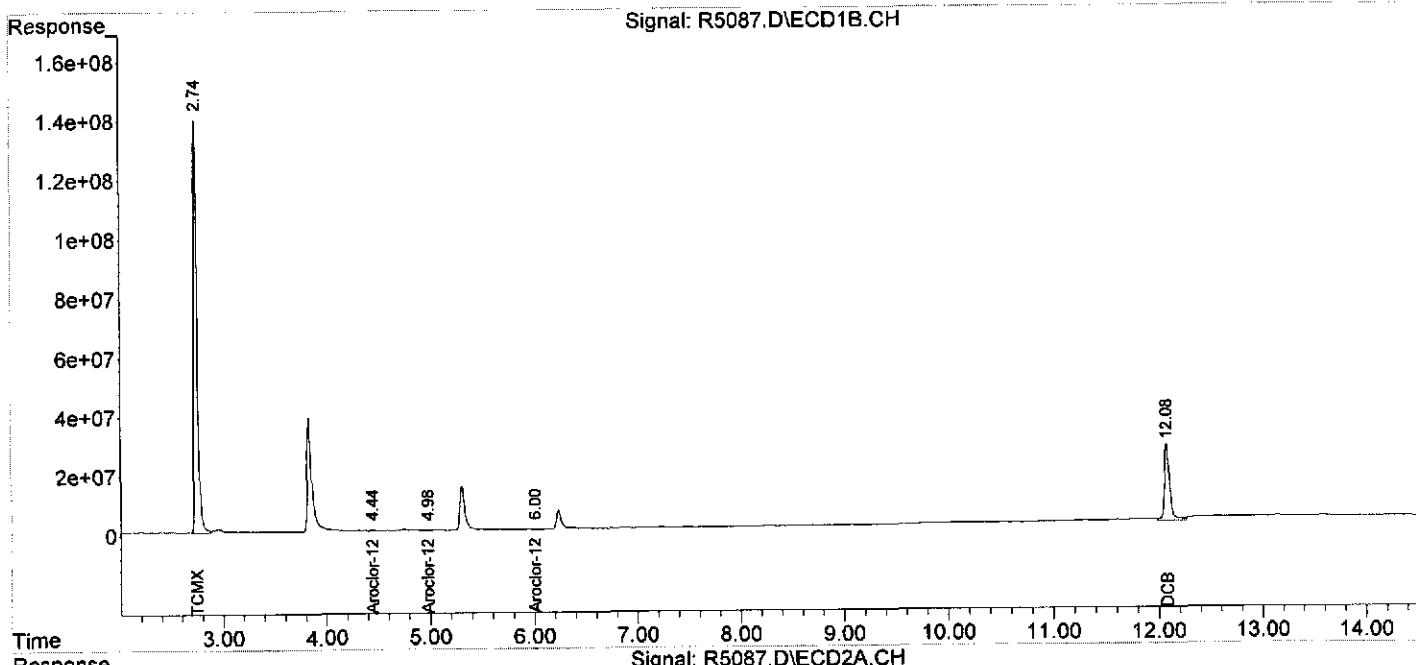
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.56	3145.6E6	5905.4E6	260.708	224.889
Spiked Amount	200.000			Recovery	= 130.35%	112.44%
2) S DCB	12.08	11.93	918.6E6	1418.1E6	232.895	171.184 #
Spiked Amount	200.000			Recovery	= 116.45%	85.59%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	4.65	14405087	12384947	22.091	8.798 #
24) L6 Aroclor-1248	{2}	4.98	5.20	6750236	31692295	17.981 14.912m
25) L6 Aroclor-1248	{3}	0.00	5.60	0	29853277	N.D. d 19.697 #
26) L6 Aroclor-1248	{4}	6.01	5.75	9160442	13254549	11.170 9.707
Sum Aroclor-1248				30315766	87185067	51.242 53.115
Average Aroclor-1248						17.081 13.279
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
Data File : R5087.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 30 Oct 2013 20:07  
Operator : NG  
Sample : AA-45N\_(,E13-10707-015,S,5.24g,81.1,20  
Misc : 131029-14,10/29/13,10/28/13,1  
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 31 13:41:06 2013  
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
Quant Title :  
QLast Update : Fri Oct 18 14:06:50 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
 Data File : R5088.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 30 Oct 2013 20:25  
 Operator : NG  
 Sample : AA-45\_(0,E13-10707-016,S,5.12g,81.1,20  
 Misc : 131029-14,10/29/13,10/28/13,1  
 ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 31 13:46:23 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
 Quant Title :  
 QLast Update : Fri Oct 18 14:06:50 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.56	3108.3E6	5742.3E6	257.613	218.677
Spiked Amount	200.000			Recovery	= 128.81%	109.34%
2) S DCB	12.08	11.93	843.2E6	1487.8E6	213.768	179.593
Spiked Amount	200.000			Recovery	= 106.88%	89.80%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	4.65	96813316	166.8E6	148.471	118.484
24) L6 Aroclor-1248	{2}	4.98	5.21	183.3E6	804.2E6	488.278
25) L6 Aroclor-1248	{3}	5.30	5.60	265.5E6	657.2E6	539.366
26) L6 Aroclor-1248	{4}	6.00	5.75	394.7E6	303.0E6	481.284
27) L6 Aroclor-1248	{5}	6.27	6.10	190.1E6	114.8E6	340.033m
Sum Aroclor-1248				1130.4E6	2046.0E6	1997.432
Average Aroclor-1248					399.486	261.742
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

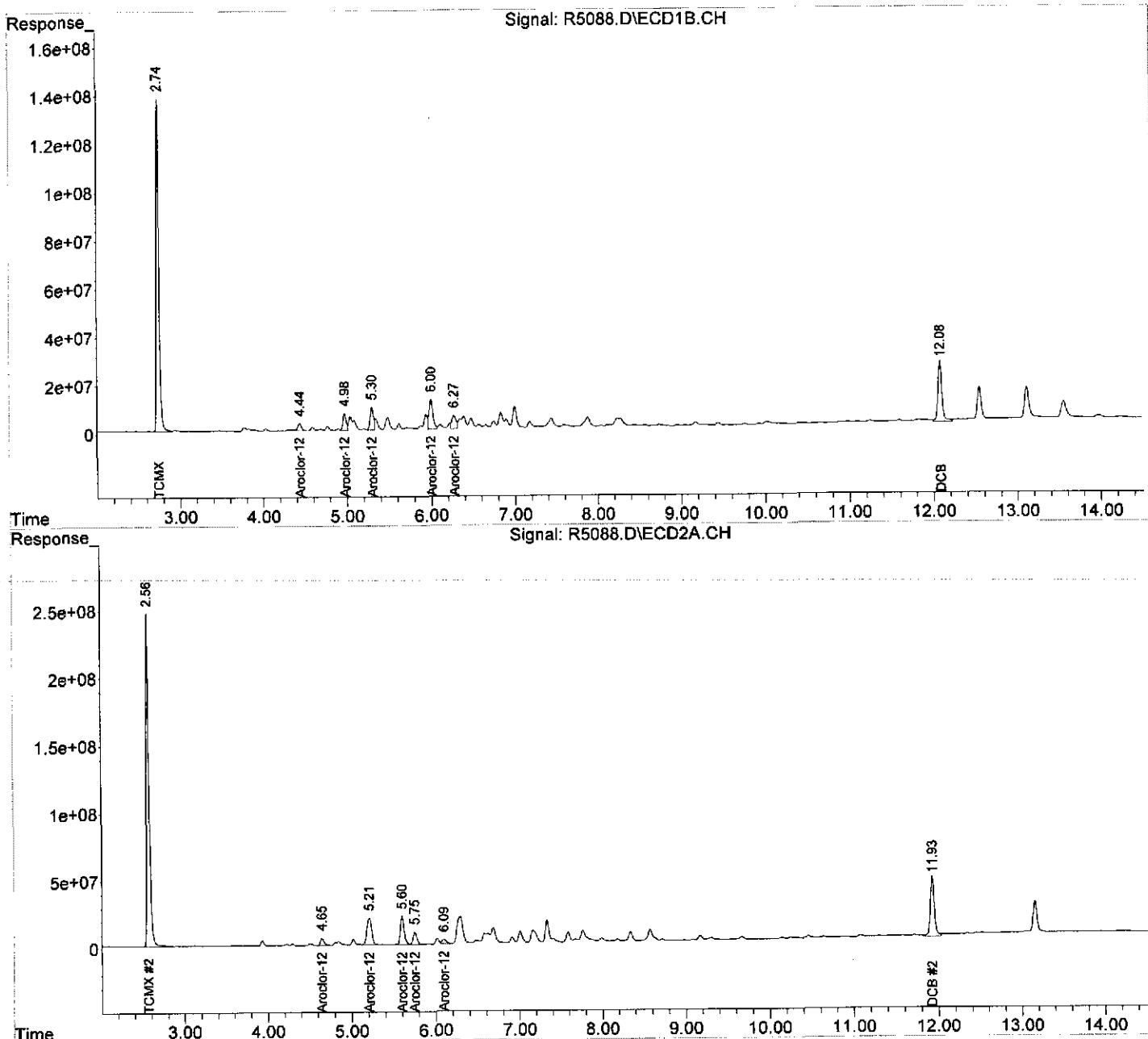
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
Data File : R5088.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 30 Oct 2013 20:25  
Operator : NG  
Sample : AA-45\_(0,E13-10707-016,S,5.12g,81.1,20  
Misc : 131029-14,10/29/13,10/28/13,1  
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 31 13:46:23 2013  
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
Quant Title :  
QLast Update : Fri Oct 18 14:06:50 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
 Data File : R5089.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 30 Oct 2013 20:42  
 Operator : NG  
 Sample : AA-45\_(1,E13-10707-017,S,5.28g,85.4,20  
 Misc : 131029-14,10/29/13,10/28/13,1  
 ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 31 13:49:23 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
 Quant Title :  
 QLast Update : Fri Oct 18 14:06:50 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

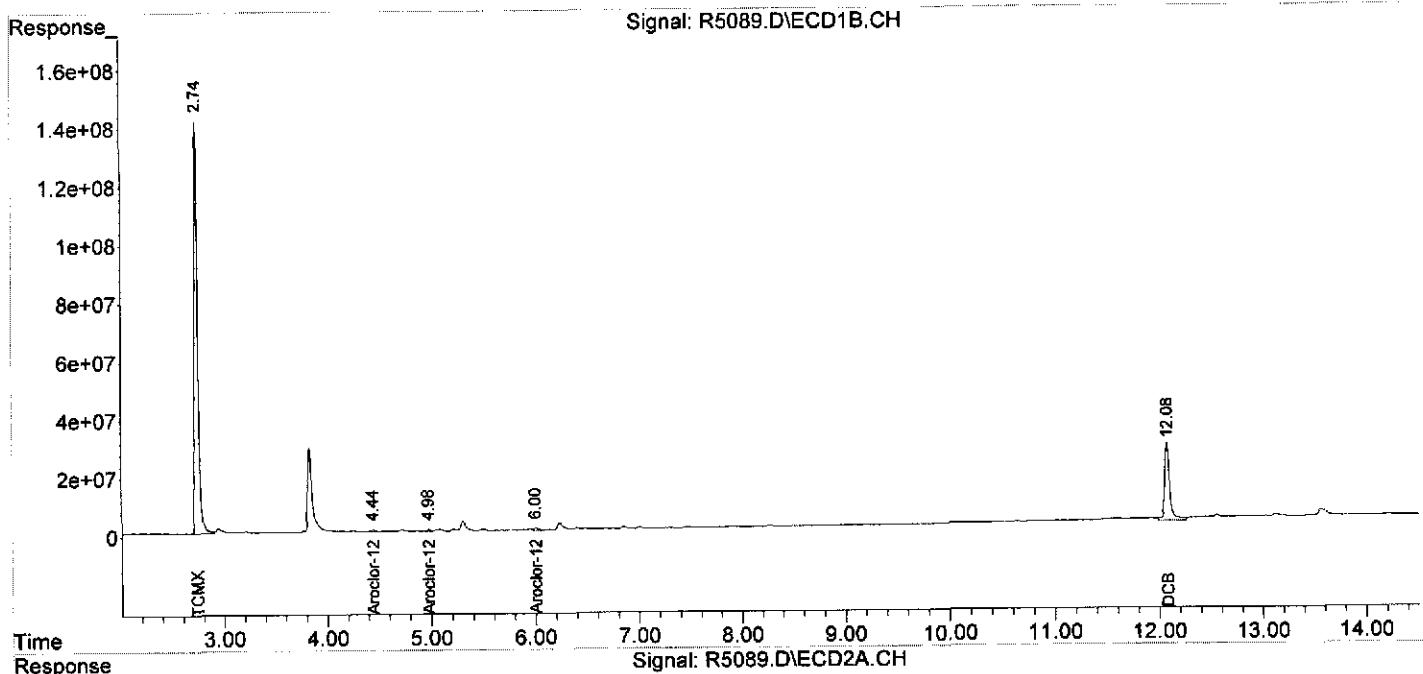
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.56	3150.7E6	5979.7E6	261.134	227.716
Spiked Amount	200.000			Recovery	=	130.57% 113.86%
2) S DCB	12.08	11.93	942.2E6	1679.3E6	238.884	202.714
Spiked Amount	200.000			Recovery	=	119.44% 101.36%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	4.65	23916202	30967204	36.677	21.999 #
24) L6 Aroclor-1248	{2}	4.98	5.21	16917502	85062834	45.063 40.023
25) L6 Aroclor-1248	{3}	0.00	5.60	0	83445185	N.D. d 55.058 #
26) L6 Aroclor-1248	{4}	6.00	5.75	29570554	43761135	36.058 32.049
27) L6 Aroclor-1248	{5}	0.00	6.10	0	22219605	N.D. d 30.259 #
Sum Aroclor-1248				70404258	265.5E6	117.799 179.388
Average Aroclor-1248						39.266 35.878
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
Data File : R5089.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 30 Oct 2013 20:42  
Operator : NG  
Sample : AA-45\_(1,E13-10707-017,S,5.28g,85.4,20  
Misc : 131029-14,10/29/13,10/28/13,1  
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 31 13:49:23 2013  
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
Quant Title :  
QLast Update : Fri Oct 18 14:06:50 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
 Data File : R5090.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 30 Oct 2013 21:00  
 Operator : NG  
 Sample : Z-45\_(0-,E13-10707-018,S,5.71g,83.4,20  
 Misc : 131029-14,10/29/13,10/28/13,1  
 ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 31 16:42:37 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
 Quant Title :  
 QLast Update : Fri Oct 18 14:06:50 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.56	3143.6E6	5888.1E6	260.547	224.228
Spiked Amount	200.000			Recovery	= 130.27%	112.11%
2) S DCB	12.08	11.93	887.7E6	1521.7E6	225.057	183.685
Spiked Amount	200.000			Recovery	= 112.53%	91.84%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	4.65	148.9E6	255.0E6	228.364	181.138
24) L6 Aroclor-1248 {2}	4.98	5.21	107.6E6	511.1E6	286.548	240.483
25) L6 Aroclor-1248 {3}	5.30	5.60	198.2E6	420.8E6	402.784m	277.661 #
26) L6 Aroclor-1248 {4}	6.00	5.75	251.4E6	301.3E6	306.535	220.630 #
27) L6 Aroclor-1248 {5}	6.27	6.09	217.7E6	180.5E6	389.377	245.738 #
Sum Aroclor-1248			923.8E6	1668.6E6	1613.607	1165.650
Average Aroclor-1248					322.721	233.130
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
34) L8 Aroclor-1260 {2}	8.96	7.58	18422673	135.1E6	47.208	111.559 #
35) L8 Aroclor-1260 {3}	9.44	9.17	66174995	89866858	66.558	88.008 #
36) L8 Aroclor-1260 {4}	9.93	9.67	26736091	130.5E6	54.369	56.802
37) L8 Aroclor-1260 {5}	10.99	10.25	13950351	87325987	57.460m	53.380
Sum Aroclor-1260			125.3E6	442.8E6	225.595	309.749
Average Aroclor-1260					56.399	77.437
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
Data File : R5090.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 30 Oct 2013 21:00  
Operator : NG  
Sample : Z-45\_(0-,E13-10707-018,S,5.71g,83.4,20  
Misc : 131029-14,10/29/13,10/28/13,1  
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 31 16:42:37 2013  
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
Quant Title :  
QLast Update : Fri Oct 18 14:06:50 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :

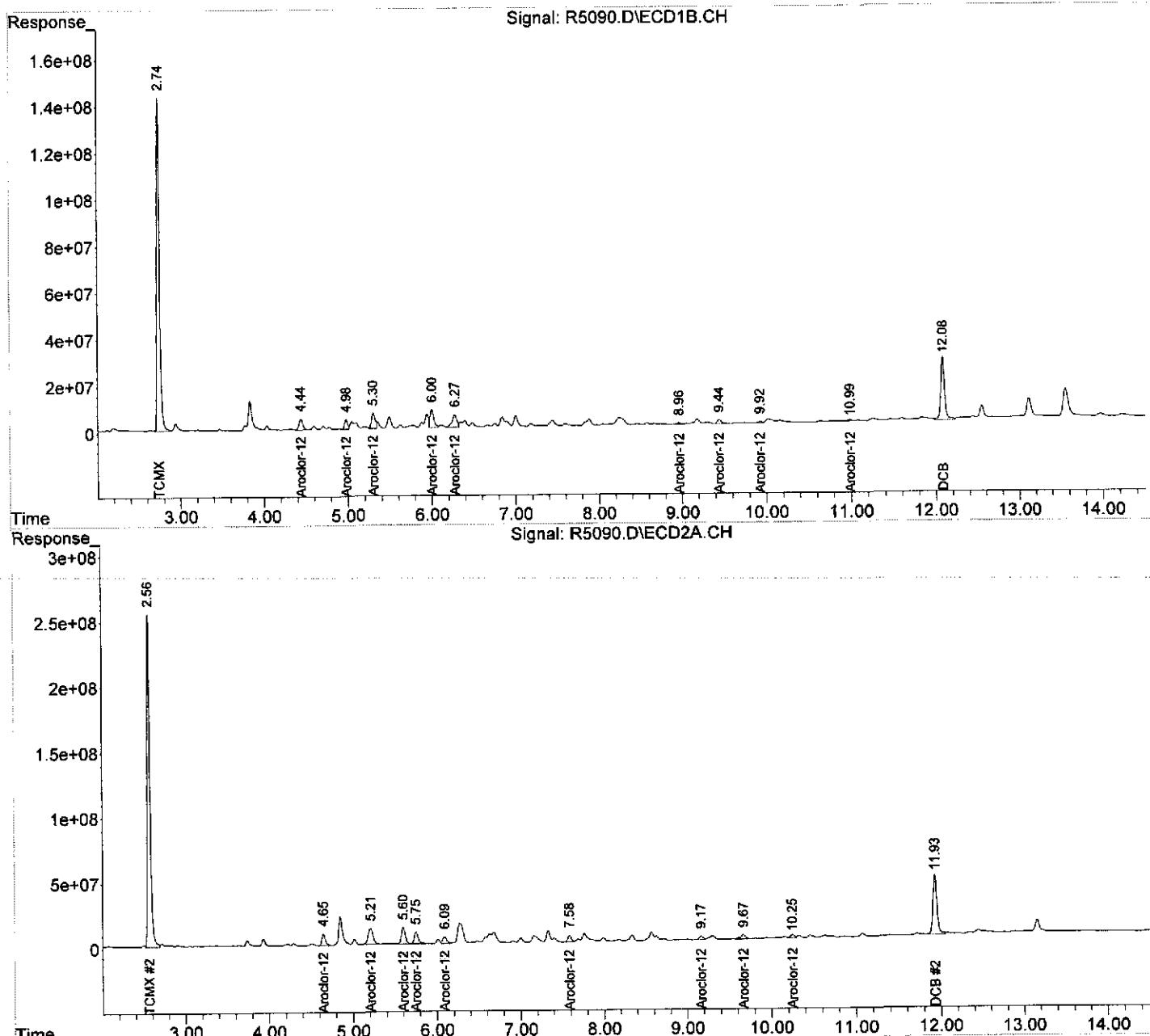
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
-----	-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
 Data File : R5090.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 30 Oct 2013 21:00  
 Operator : NG  
 Sample : Z-45 (0-,E13-10707-018,S,5.71g,83.4,20  
 Misc : 131029-14,10/29/13,10/28/13,1  
 ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 31 16:42:37 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
 Quant Title :  
 QLast Update : Fri Oct 18 14:06:50 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
 Data File : R5091.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 30 Oct 2013 21:17  
 Operator : NG  
 Sample : Z-45\_(1.,E13-10707-019,S,5.37g,82.5,20  
 Misc : 131029-14,10/29/13,10/28/13,1  
 ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 31 13:54:38 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
 Quant Title :  
 QLast Update : Fri Oct 18 14:06:50 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

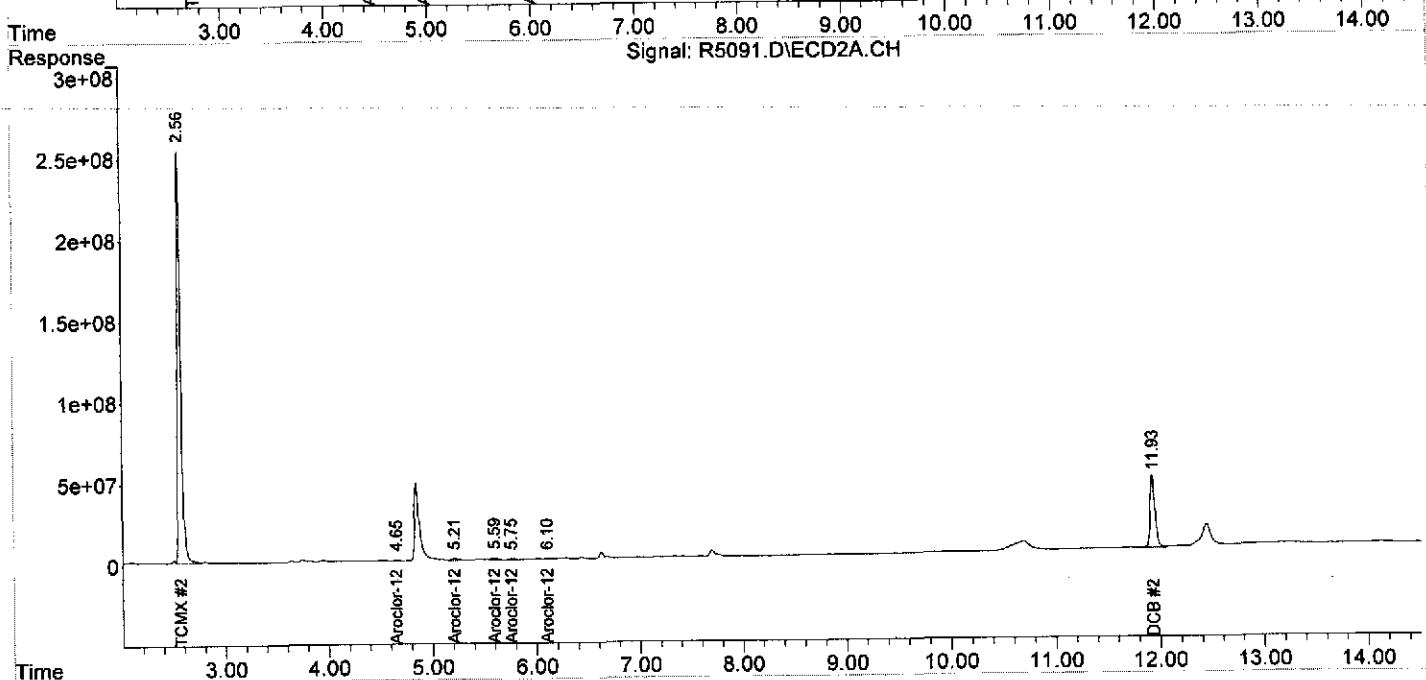
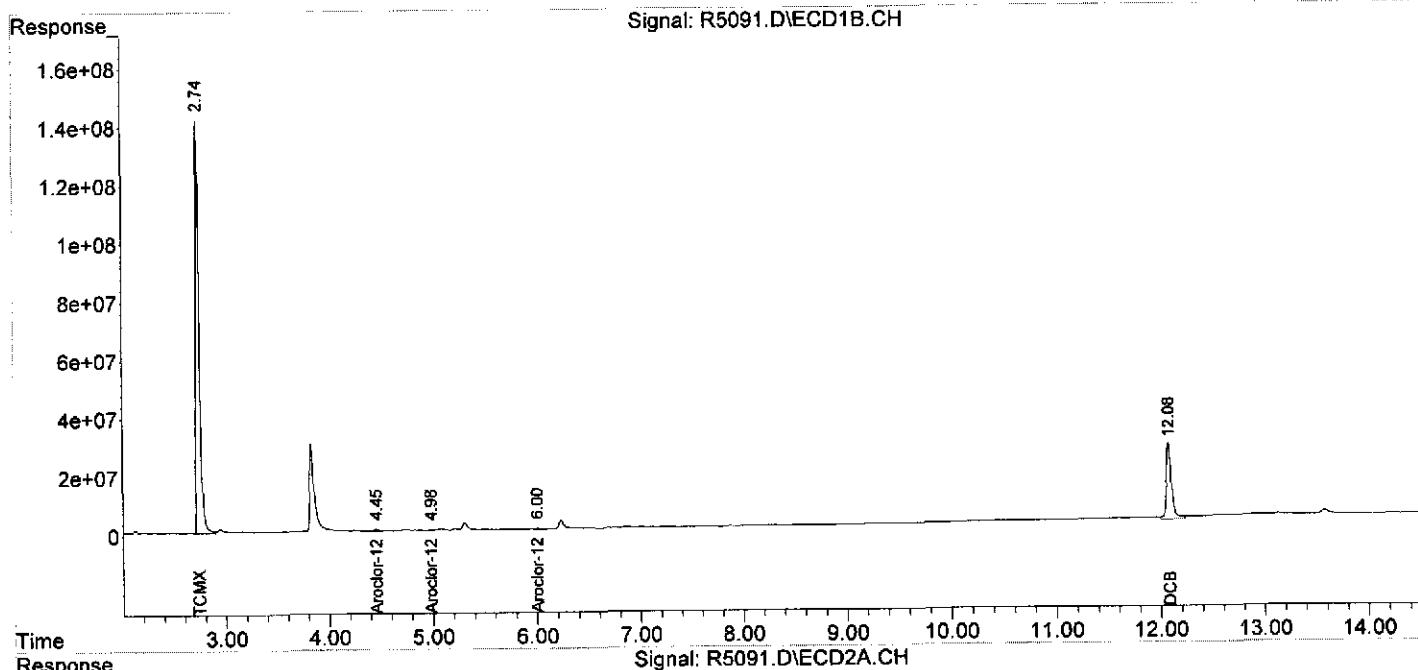
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.56	3179.0E6	5933.3E6	263.476	225.949
Spiked Amount	200.000			Recovery	= 131.74%	112.97%
2) S DCB	12.08	11.93	917.1E6	1459.9E6	232.515	176.230
Spiked Amount	200.000			Recovery	= 116.26%	88.11%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.45	4.65	16059180	12038125	24.628	8.552 #
24) L6 Aroclor-1248	{2}	4.98	5.21	6407921	53880804	17.069 25.352 #
25) L6 Aroclor-1248	{3}	0.00	5.59	0	42114942	N.D. d 27.788 #
26) L6 Areeler-1248	{4}	6.00	5.75	14904100	21927472	18.174 16.059
27) L6 Aroclor-1248	{5}	0.00	6.10	0	11848193	N.D. d 16.135 #
Sum Aroclor-1248			37371201	141.8E6	59.871	93.885
Average Aroclor-1248					19.957	18.777
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
 Data File : R5091.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 30 Oct 2013 21:17  
 Operator : NG  
 Sample : Z-45 (1., E13-10707-019, S, 5.37g, 82.5, 20  
 Misc : 131029-14, 10/29/13, 10/28/13, 1  
 ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 31 13:54:38 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
 Quant Title :  
 QLast Update : Fri Oct 18 14:06:50 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :



## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-01-13\  
 Data File : Y2700.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 01 Nov 2013 18:46  
 Operator : NG  
 Sample : FB-27,E13-10707-020,A,1000ml,100,5  
 Misc : 131101-10,11/01/13,10/28/13,1  
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Nov 04 10:32:25 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB1024.M  
 Quant Title :  
 QLast Update : Thu Oct 24 16:10:52 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<b>System Monitoring Compounds</b>						
1) S TCMX	2.77	2.89	2957.0E6	6261.5E6	162.922	149.595
Spiked Amount	200.000			Recovery	=	81.46% 74.80%
2) S DCB	12.03	12.47	726.3E6	1858.5E6	99.588	118.337
Spiked Amount	200.000			Recovery	=	49.79% 59.17%
<b>Target Compounds</b>						
Sum Aroclor-1016			0	0	N.D. 0.000	N.D. 0.000
Average Aroclor-1016						
Sum Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
Average Aroclor-1221						
Sum Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
Average Aroclor-1232						
Sum Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
Average Aroclor-1242						
Sum Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
Average Aroclor-1248						
Sum Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
Average Aroclor-1254						
Sum Aroclor-1260			0	0	N.D. 0.000	N.D. 0.000
Average Aroclor-1260						
Sum Aroclor-1262			0	0	N.D. 0.000	N.D. 0.000
Average Aroclor-1262						
Sum Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
Average Aroclor-1268						

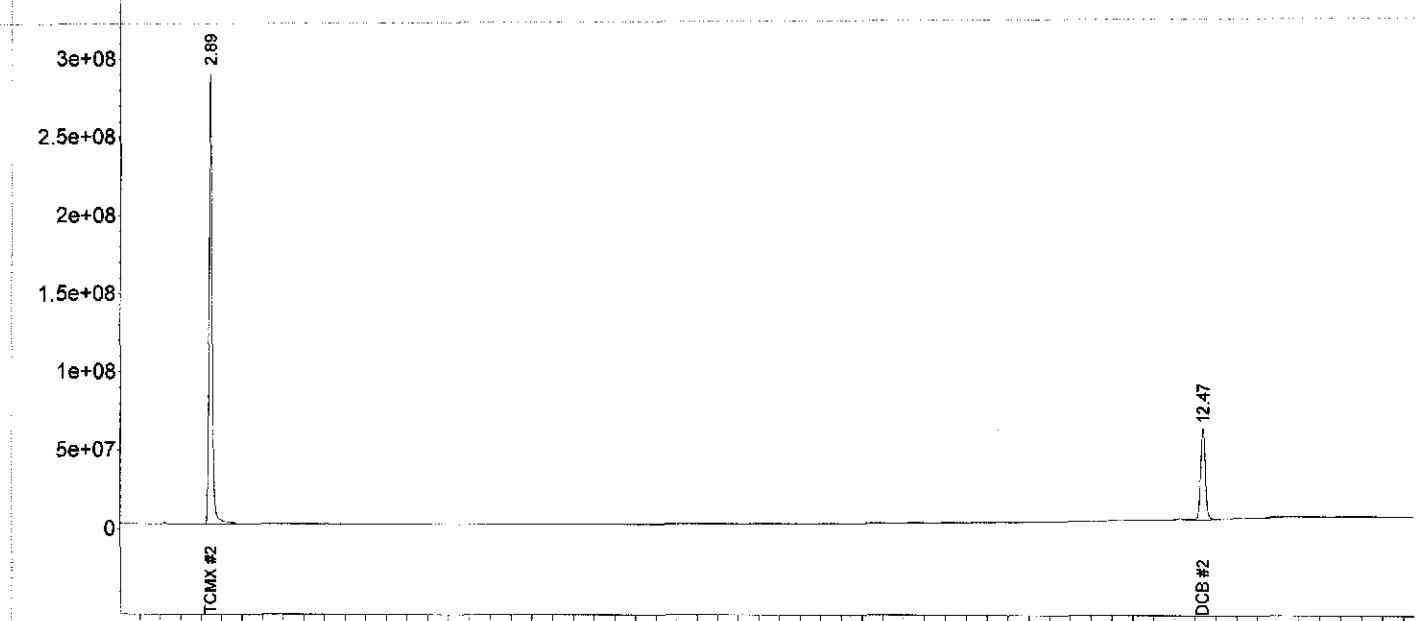
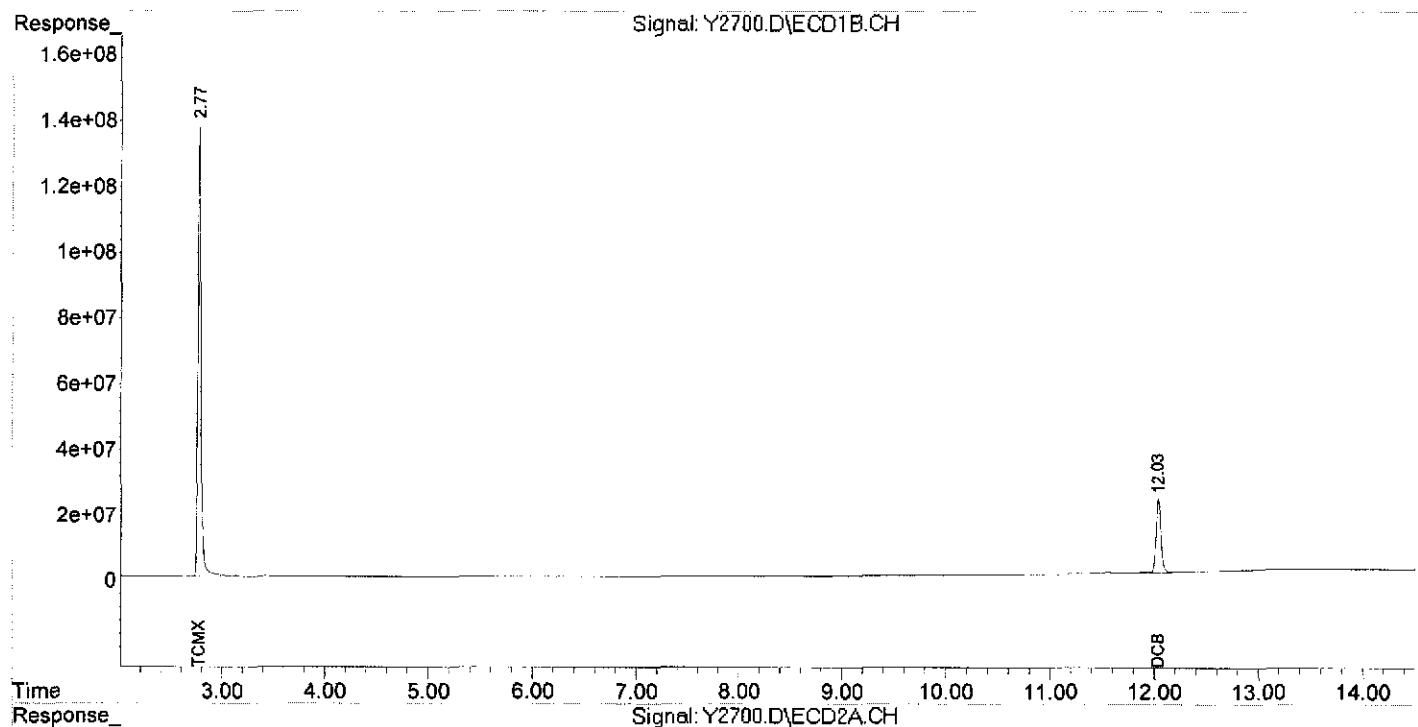
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-01-13\  
Data File : Y2700.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 01 Nov 2013 18:46  
Operator : NG  
Sample : FB-27,E13-10707-020,A,1000ml,100,5  
Misc : 131101-10,11/01/13,10/28/13,1  
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Nov 04 10:32:25 2013  
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1024.M  
Quant Title :  
QLast Update : Thu Oct 24 16:10:52 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: BLKA131021-17  
Client ID: PCB  
Date Received: NA  
Date Extracted: 10/21/2013  
Date Analyzed: 10/22/2013  
Data file: Y2409.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 1000ml  
Matrix-Units: Aqueous- $\mu$ g/L (ppb)  
Dilution Factor: 1  
% Moisture: 100

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND	0.050	0.020	
Aroclor-1221	ND	0.050	0.020	
Aroclor-1232	ND	0.050	0.020	
Aroclor-1242	ND	0.050	0.020	
Aroclor-1248	ND	0.050	0.020	
Aroclor-1254	ND	0.050	0.020	
Aroclor-1260	ND	0.050	0.020	
Aroclor-1262	ND	0.050	0.020	
Aroclor-1268	ND	0.050	0.020	
PCBs	ND	0.050	0.020	

D --- Dilution Performed

J --- Value Less than RL &amp; great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: BLKA131101-10

Client ID: PCB

Date Received: NA

Date Extracted: 11/01/2013

Date Analyzed: 11/01/2013

Data file: Y2696.D

GC Column: DB-5/DB1701P

Sample wt/vol: 1000ml

Matrix-Units: Aqueous- $\mu$ g/L (ppb)

Dilution Factor: 1

% Moisture: 100

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.050	0.020
Aroclor-1221	ND		0.050	0.020
Aroclor-1232	ND		0.050	0.020
Aroclor-1242	ND		0.050	0.020
Aroclor-1248	ND		0.050	0.020
Aroclor-1254	ND		0.050	0.020
Aroclor-1260	ND		0.050	0.020
Aroclor-1262	ND		0.050	0.020
Aroclor-1268	ND		0.050	0.020
PCBs	ND		0.050	0.020

D --- Dilution Performed

J --- Value Less than RL &amp; great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-22-13\  
 Data File : Y2409.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 22 Oct 2013 21:25  
 Operator : NG  
 Sample : PCB.BLKA131021-17.A.1000ml.100.5  
 Misc : NA,NA,NA,1  
 ALS Vial : 61 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 23 10:27:23 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.77	2.89	3254.0E6	6959.8E6	176.250	189.516
Spiked Amount	200.000			Recovery	=	88.13%
2) S DCB	12.04	12.48	976.4E6	2314.3E6	158.429	179.170
Spiked Amount	200.000			Recovery	=	79.21%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-22-13\  
Data File : Y2409.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 22 Oct 2013 21:25  
Operator : NG  
Sample : PCB,BLKA131021-17.A,1000ml,100.5  
Misc : NA.NA.NA.1  
ALS Vial : 61 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 23 10:27:23 2013  
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
Quant Title :  
QLast Update : Mon Sep 30 10:08:11 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

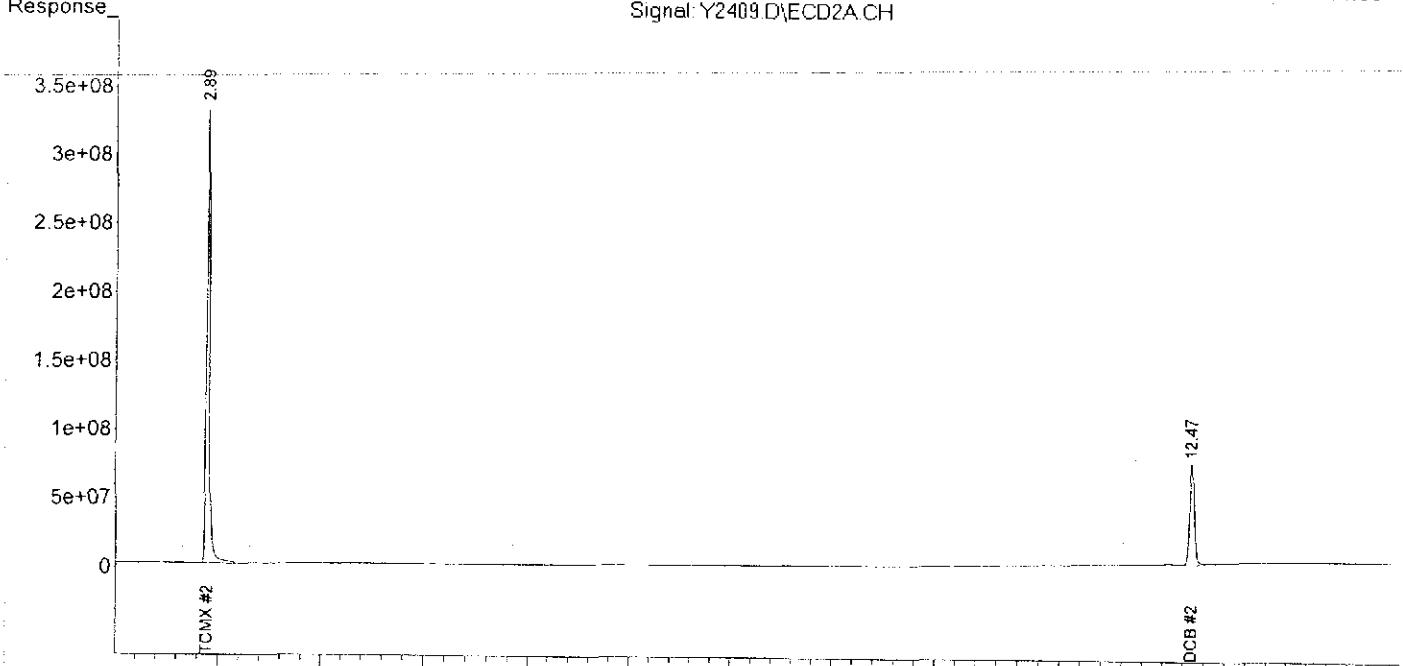
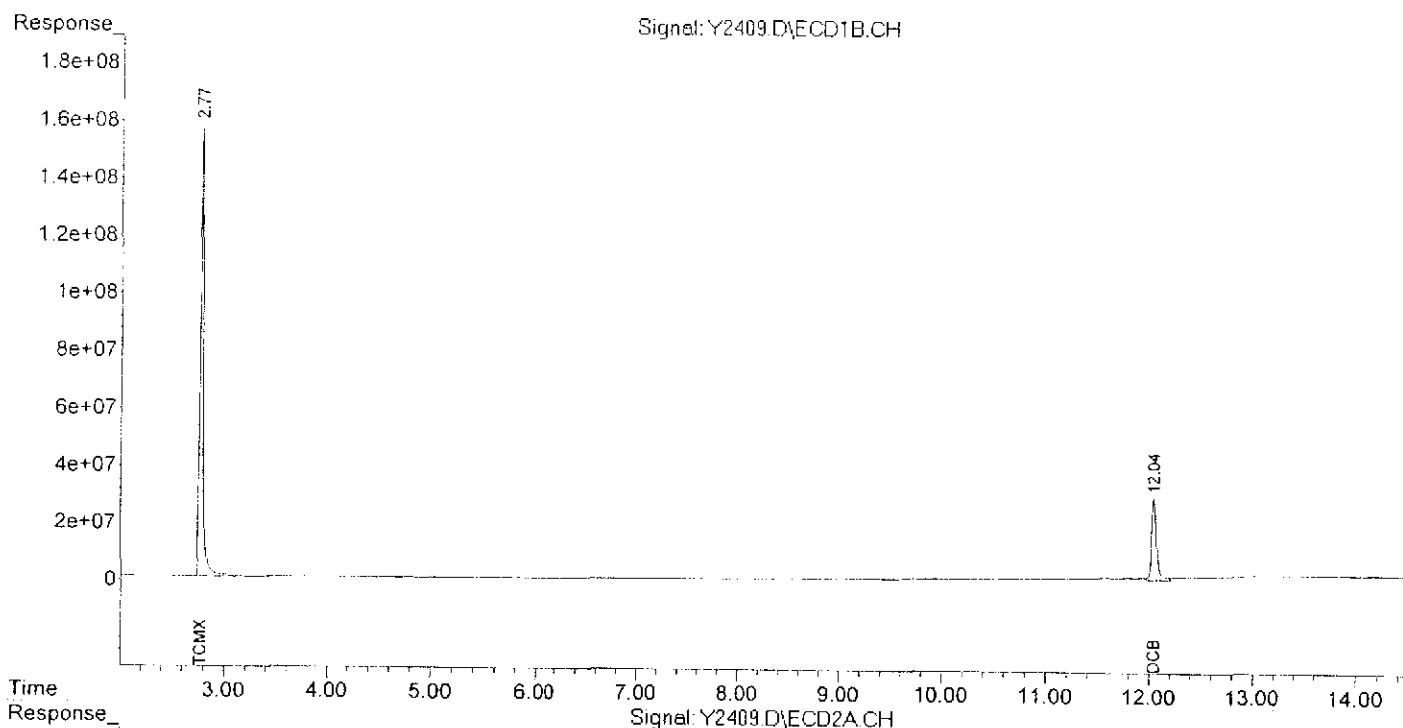
Volume Inj. :

Signal #1 Phase :

Signal #1 Info :

Signal #2 Phase:

Signal #2 Info :



## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-01-13\  
 Data File : Y2696.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 01 Nov 2013 17:36  
 Operator : NG  
 Sample : PCB.BLKA131101-10.A,1000ml,100,5  
 Misc : NA,11/01/13,NA,1  
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Nov 04 10:28:42 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB1024.M  
 Quant Title :  
 QLast Update : Thu Oct 24 16:10:52 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<b>System Monitoring Compounds</b>						
1) S TCMX	2.77	2.89	3198.3E6	6701.3E6	176.217	160.102
Spiked Amount	200.000			Recovery	= 88.11%	80.05%
2) S DCB	12.03	12.47	756.9E6	1960.2E6	103.787	124.815
Spiked Amount	200.000			Recovery	= 51.89%	62.41%
<b>Target Compounds</b>						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

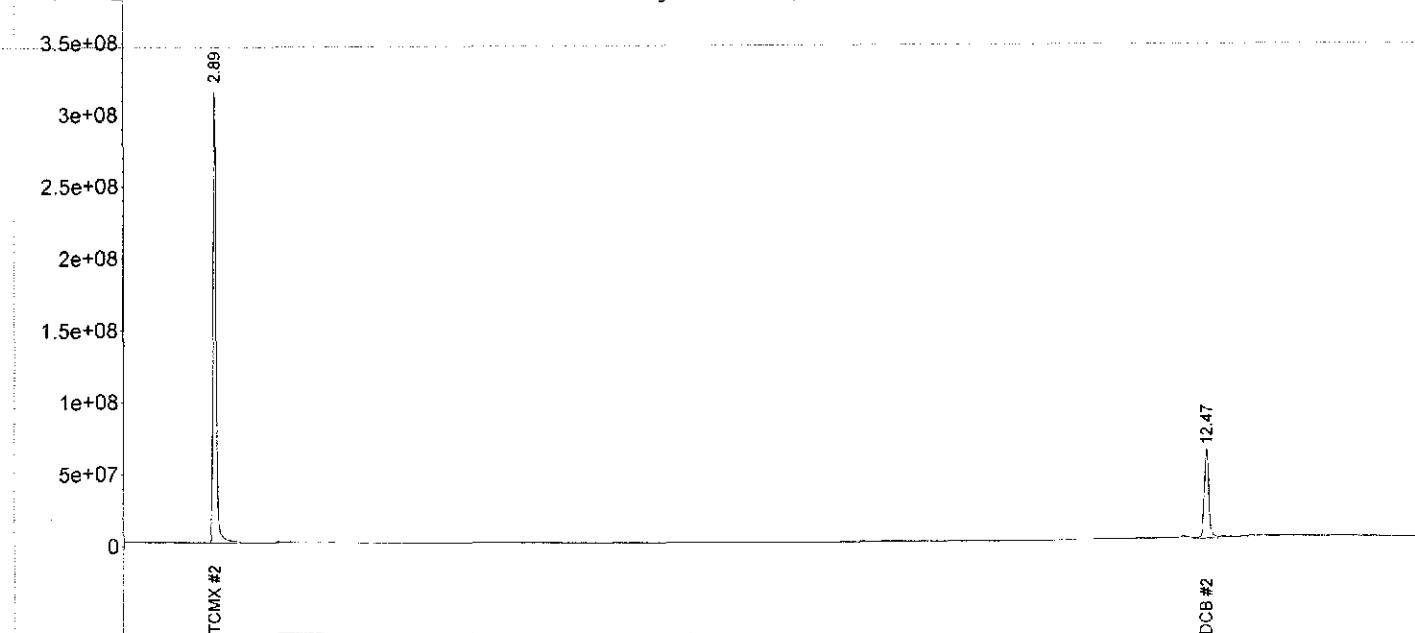
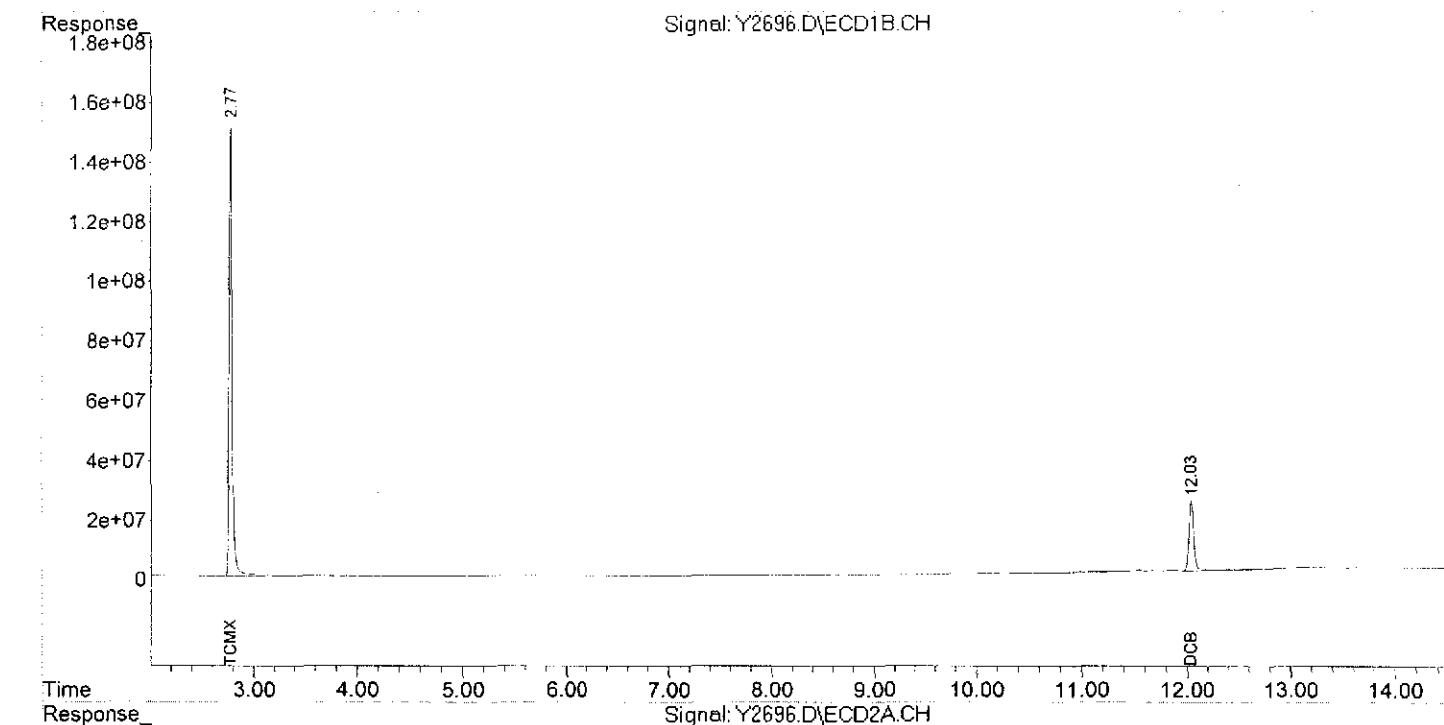
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-01-13\  
Data File : Y2696.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 01 Nov 2013 17:36  
Operator : NG  
Sample : PCB.BLKA131101-10.A.1000ml.100.5  
Misc : NA.11/01/13.NA.1  
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Nov 04 10:28:42 2013  
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1024.M  
Quant Title :  
QLast Update : Thu Oct 24 16:10:52 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: BLKS131029-14

Client ID: PCB

Date Received: NA

Date Extracted: 10/29/2013

Date Analyzed: 10/30/2013

Data file: R5068.D

GC Column: DB-5/DB1701P

Sample wt/vol: 5.00g

Matrix-Units: Soil-mg/Kg (ppm)

Dilution Factor: 1

% Moisture: NA

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.040	0.016
Aroclor-1221	ND		0.040	0.016
Aroclor-1232	ND		0.040	0.016
Aroclor-1242	ND		0.040	0.016
Aroclor-1248	ND		0.040	0.016
Aroclor-1254	ND		0.040	0.016
Aroclor-1260	ND		0.040	0.016
Aroclor-1262	ND		0.040	0.016
Aroclor-1268	ND		0.040	0.016
PCBs	ND		0.040	0.016

D --- Dilution Performed

J --- Value Less than RL &amp; great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-30-13\  
 Data File : R5068.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 30 Oct 2013 13:31  
 Operator : NG  
 Sample : PCB,BLKS131029-14,S,5.00g,0,20  
 Misc : NA,10/29/13,NA,1  
 ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 30 17:07:43 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
 Quant Title :  
 QLast Update : Fri Oct 18 14:06:50 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

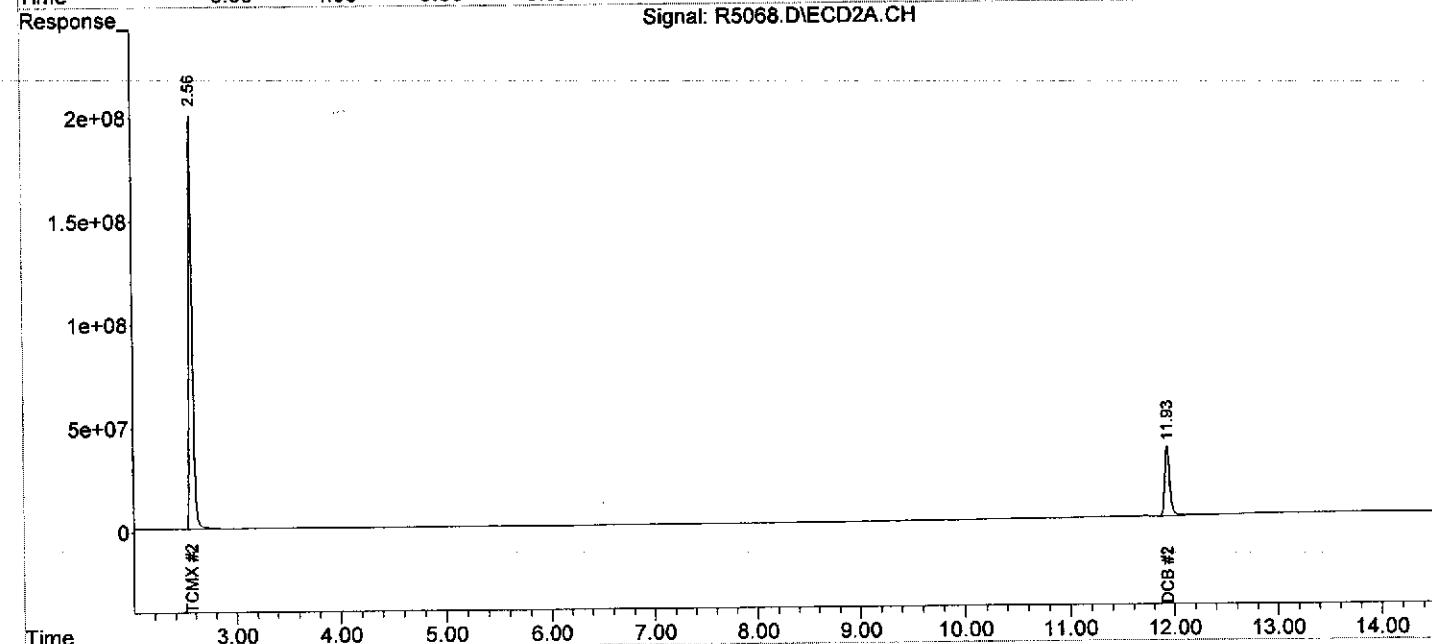
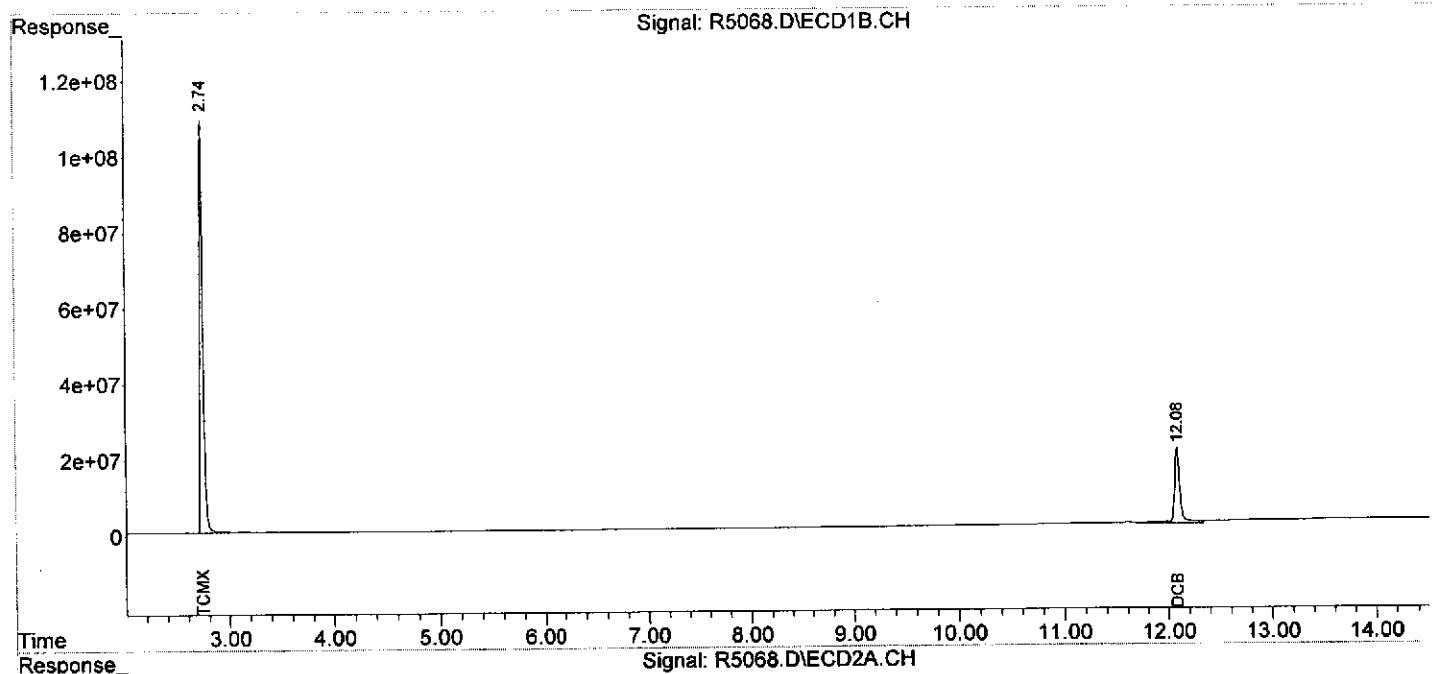
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.57	2358.8E6	4460.5E6	195.500	169.865
Spiked Amount	200.000			Recovery	=	97.75% 84.93%
2) S DCB	12.08	11.93	781.9E6	1188.2E6	198.223	143.433 #
Spiked Amount	200.000			Recovery	=	99.11% 71.72%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDChem\1\DATA\10-30-13\  
Data File : R5068.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 30 Oct 2013 13:31  
Operator : NG  
Sample : PCB, BLKS131029-14,S,5.00g,0,20  
Misc : NA,10/29/13,NA,1  
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 30 17:07:43 2013  
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M  
Quant Title :  
QLast Update : Fri Oct 18 14:06:50 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



## SAMPLE TRACKING



Integrated Analytical Labs  
273 Franklin Rd  
Randolph, NJ 07869

Contact Us: 973 361-4252  
fax: 973 989-5288  
Web: www.ialonline.com

CUSTOMER INFO		REPORTING INFO		Turnaround Time (starts the following day if samples rec'd at lab > 5PM)														
Company: JMC Environmental Consultants, Inc.	REPORT TO:	James Clabby		*Lab notification is required for RUSH TAT prior to sample arrival. RUSH TAT IS NOT GUARANTEED WITHOUT LAB APPROVAL. **RUSH SURCHARGES WILL APPLY IF ABLE TO ACCOMMODATE														
Address: 2109 Bridge Ave., Bldg. B	Address:	same																
Point Pleasant, NJ 07842																		
Telephone #: (732) 295-2144	Attn:																	
Fax #: (732) 295-2150	FAX #	(732) 295-2150																
Project Manager: James Clabby		INVOICE TO:	Aceto Corp.															
EMAIL Address: jclabby@jmcenterprise.com		Address:	4 Tri Harbor Court															
Sampler: Steve Kosch, Chris Cho		Port Washington, NY 11050																
Project Name: Arsynco		(with copy to: JMC Environmental (attn.: J. Clabby))																
Project Location (State): NJ		Attn:	Ed Kelly															
Bottle Order #:		PO # 22126																
Quote # : SR041205		Sample Matrix																
DW - Drinking Water		AQ - Aqueous	WW - Waste Water															
OI - Oil		LIQ - Liquid (Specify)	OT - Other (Specify)															
S - Soil		SL - Sludge	SOL - Solid	W - Wipe														
Client ID	Depth (ft only)	Sampling		# container s	IAL #	ANALYTICAL PARAMETERS										# BOTTLES & PRESERVATIVES		
		Date	Time			TCL PCB (8082)										HCl	BN03	MeOH
P-48N (0-1.0)	10/28/13	10:00	S	1	1	x												
P-48N (0.0-2.0)	"	10:01	S	1	2	x												
W-43 (3.0-4.0)	"	10:30	S	1	3	x												
W-43 (4.0-5.0)	"	10:37	S	1	4	x												
W-43 (5.0-6.0)	"	10:38	S	1	5	x												
W-43 (6.0-7.0)	"	10:39	S	1	6	x												
AA-48 (0-1.0)	✓	11:29	S	1	7	x												
AA-48 (1.0-2.0)	✓	11:30	S	1	8	x												
Known Hazard: Yes or No		Describe:		Conc. Expected:		Low	Med	High	MDL Req: GWQS (11/05) - SRS - SRS/IGW - SRS Residential - OTHER (SEE COMMENTS)									

Please print legibly and fill out completely. Samples cannot be processed and the turnaround time will not start until any ambiguities have been resolved.

check one): IAL Courier  Client Courier  FedEx/UPS

Signature/Company	Date	Time	Signature/Company	Date	Time
Relinqu d by: <i>John Chong</i>	10/28/13	13:50	Received by: <i>John Chong</i>	10-28-13	15:00
Relinqu d by: <i>Bob Clabby</i>	10/28/13	16:16	Received by:	10-28-13	16:10
Relinqu d by:			Received by:		
Relinqu d by:			Received by:		
Relinqu d by:			Received by:		

Comments:

Lab Case #

10707

PAGE: 1 of 3

LAB COPIES - WHITE & YELLOW; CLIENT COPY - PINK

W

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Integrated Analytical Labs  
273 Franklin Rd  
Randolph, NJ 07869

Contact Us: 973 361-4252  
fax: 973 989-5288  
Web: www.ialonline.com

CUSTOMER INFO		REPORTING INFO		Turnaround Time (starts the following day if samples rec'd at lab > 5PM)																	
Company: JMC Environmental Consultants, Inc.	REPORT TO:	James Clabby		*Lab notification is required for RUSH TAT prior to sample arrival. RUSH TAT IS NOT GUARANTEED WITHOUT LAB APPROVAL. **RUSH SURCHARGES WILL APPLY IF ABLE TO ACCOMMODATE																	
Address: 2109 Bridge Ave., Bldg. B	Address:	same																			
Point Pleasant, NJ 08742																					
Telephone #: (732) 295-2144		Attn:																			
Fax #: (732) 295-2150		FAX # (732) 295-2150																			
Project Manager: James Clabby		INVOICE TO:	Aceto Corp.																		
EMAIL Address: jclabby@jmceenvironmental.com		Address:	4 Tri Harbor Court																		
Sampler: Steve Kosch, Chris Cho		Port Washington, NY 11050																			
Project Name: Arsynco		(with copy to: JMC Environmental (attn: J. Clabby))																			
Project Location (State): NJ		Attn: Ed Kelly																			
Bottle Order #:		PO # 22126																			
Quote #: SR041205		Sample Matrix																			
DW - Drinking Water		AQ - Aqueous	WW - Waste Water																		
OI - Oil		LIQ - Liquid (Specify)	OT - Other (Specify)																		
S - Soil		SL - Sludge	SOL - Solid	W - Wipe																	
SAMPLE INFORMATION		ANALYTICAL PARAMETERS										# BOTTLES & PRESERVATIVES									
Client ID	Depth (ft only)	Sampling	Date	Time	Matrix	# containers	IAL #	TCL PCB (8082)								HCl	HNO3	MeOH	H2SO4	NaOH/ZnAc	Sterile
BB-48 (0-1.0)		10/28/13	1146		S	1	9	x													
BB-48 (1.0-2.0)			1147		S	1	10	x													
CA-46S (0-1.0)			12:08		S	1	11	x													
CA-46S (1.0-2.0)			12:09		S	1	12	x													
AA-45N (0-1.0)			12:25		S	1	13	x													
AA-45N (1.0-2.0)			12:26		S	1	14	x													
AA-45N (2.0-3.0)			12:27		S	1	15	x													
AA-45 (0-1.0)		✓	12:48		S	1	16	x													
Known Hazard: Yes or No		Describe:		Conc. Expected:		Low	Med	High	MDL Req: GWQS (11/05) - SRS - SRS/ICW - SRS Residential - OTHER (SEE COMMENTS)												

Please print legibly and fill out completely. Samples cannot be processed and the turnaround time will not start until any ambiguities have been resolved.

<input checked="" type="checkbox"/> Carrier (check one):	IAL Courier	Client Courier	FedEx/UPS		
Signature/Company	Date	Time	Signature/Company	Date	Time
Relinquished by: <i>Clyde J. O'Leary</i>	10/28/13	1530	Received by: <i>P. D. C. Strong</i>	10/28/13	1500
Relinquished by: <i>R. B. O'Leary</i>	10/28/13	1610	Received by: <i>P. D. C. Strong</i>	10/28/13	1610
Relinquished by:			Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by:		

LAB COPY - ES - WHITE & YELLOW; CLIENT COPY - PINK

Comments:
Lab Case #
10707
PAGE: 2 of 3



Integrated Analytical Labs  
273 Franklin Rd  
Randolph, NJ 07869

Contact Us: 973 361-4252  
fax: 973 989-5288  
Web: www.ialonline.com

CUSTOMER INFO		REPORTING INFO																	
Company: JMC Environmental Consultants, Inc.	REPORT TO:	James Clabby																	
Address: 2109 Bridge Ave., Bldg. B	Address:	same																	
Point Pleasant, NJ 08742																			
Telephone #: (732) 295-2144		Attn:																	
Fax #: (732) 295-2150		FAX # (732) 295-2150																	
Project Manager: James Clabby		INVOICE TO:	Aceto Corp.																
EMAIL Address: jclabby@jmconvironmental.com		Address: 4 Tri Harbor Court																	
Sampler: Steve Kosch, Chris Cho		Port Washington, NY 11050																	
Project Name: Arsynco		(with copy to: JMC Environmental (attn: J. Clabby))																	
Project Location (State): NJ		Attn: Ed Kelly																	
Bottle Order #:		PO # 22126																	
Quote #: SR041205																			
SAMPLE INFORMATION																			
Client ID	Depth (ft only)	Sample Matrix		TCL PCB (8082)	ANALYTICAL PARAMETERS								# BOTTLES & PRESERVATIVES						
		Sampling	Matrix		# containers	IAL #										HCl	HN03	MeOH	H2SO4
AA-45 (1.0-2.0)		10/28/13 1:49	S	1	17	x													
Z-45 (0-1.0)		2:15	S	1	18	x													
Z-45 (1.0-2.0)		2:16	S	1	19	x													
FB-27		2:35	aq	2	20	x													
						x													
						x													
						x													
						x													
Known Hazard: Yes or No		Describe:		Conc. Expected: Low Med High		MDL Req: GWQS (11/05) - SRS - SRS/ICW - SRS Residential - OTHER (SEE COMMENTS)													

Please print legibly and fill out completely. Samples cannot be processed and the turnaround time will not start until any ambiguities have been resolved.

Carrier (check one):	IAL Courier	Client Courier	FedEx/UPS		
Signature/Company	Date	Time	Signature/Company	Date	Time
Received by:	10/28/13 15:00	Received by:	Peter A. Hong	10-28-13	1500
Received by:	10/28/13 16:00	Received by:		10/28/13	1600
Received by:		Received by:			
Received by:		Received by:			
Received by:		Received by:			

Comments:

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Lab Case #

10707

PAGE: 3 of 3

LAB COPIES - WHITE & YELLOW; CLIENT COPY - PINK

W

CO

# PROJECT INFORMATION

## E13-10707: ARSYNCO

**To:** Jim Clabby  
JMC Environmental Consultants  
Fax: 1(732) 295-2150  
EMail: jclabby@jmcevironmental.com; ah

**Report To**

JMC Environmental Consultants  
2109 Bridge Avenue  
Building B  
Point Pleasant, NJ 08742  
Attn: Jim Clabby

**Bill To**

JMC Environmental Consultants  
Aceto Corp.  
4 Tri Harbor Court  
Port Washington, NY 11050  
Attn: Mr. Ed Kelly

Report Format	P.O. #	Received At Lab	TPHC Due	Verbal Due	Hardcopy Due
Reduced	22126	Oct 28, 2013 @ 16:10	NA	Nov 11, 2013	Nov 18, 2013 *

\* Any *Conditional or Hold* status will delay final hardcopy report sent date.

**Diskette Req.** SRP TXT

\*\* QC Requirement (must meet): NJ SRS

Lab ID	Client Sample ID	Depth	Sampling Time	Matrix	Unit	Field pH/Temp
10707-001	P-48N (0-1.0)	0/1	10/28/13@10:00	Soil	mg/Kg (ppm)	
10707-002	P-48N (1.0-2.0)	1/2	10/28/13@10:01	Soil	mg/Kg (ppm)	
10707-003	W-43 (3.0-4.0)	3/4	10/28/13@10:36	Soil	mg/Kg (ppm)	
10707-004	W-43 (4.0-5.0)	4/5	10/28/13@10:37	Soil	mg/Kg (ppm)	
10707-005	W-43 (5.0-6.0)	5/6	10/28/13@10:38	Soil	mg/Kg (ppm)	
10707-006	W-43 (6.0-7.0)	6/7	10/28/13@10:39	Soil	mg/Kg (ppm)	
10707-007	AA-48 (0-1.0)	0/1	10/28/13@11:29	Soil	mg/Kg (ppm)	
10707-008	AA-48 (1.0-2.0)	1/2	10/28/13@11:30	Soil	mg/Kg (ppm)	
10707-009	BB-48 (0-1.0)	0/1	10/28/13@11:46	Soil	mg/Kg (ppm)	
10707-010	BB-48 (1.0-2.0)	1/2	10/28/13@11:47	Soil	mg/Kg (ppm)	
10707-011	CC-46S (0-1.0)	0/1	10/28/13@12:08	Soil	mg/Kg (ppm)	
10707-012	CC-46S (1.0-2.0)	1/2	10/28/13@12:09	Soil	mg/Kg (ppm)	
10707-013	AA-45N (0-1.0)	0/1	10/28/13@13:25	Soil	mg/Kg (ppm)	
10707-014	AA-45N (1.0-2.0)	1/2	10/28/13@13:26	Soil	mg/Kg (ppm)	
10707-015	AA-45N (2.0-3.0)	2/3	10/28/13@13:27	Soil	mg/Kg (ppm)	
10707-016	AA-45 (0-1.0)	0/1	10/28/13@13:48	Soil	mg/Kg (ppm)	
10707-017	AA-45 (1.0-2.0)	1/2	10/28/13@13:49	Soil	mg/Kg (ppm)	
10707-018	Z-45R (0-1.0)	0/1	10/28/13@14:15	Soil	mg/Kg (ppm)	
10707-019	Z-45R (1.0-2.0)	1/2	10/28/13@14:16	Soil	mg/Kg (ppm)	
10707-020	FB-27	NA	10/28/13@14:35	Aqueous	mg/L (ppm)	

Sample #	Test	Status	QA Method	TAT	Holding Time Expires
001	TCL PCB	Analyze	8082A	STD/2 WKS	11/11/2013
002	TCL PCB	Analyze	8082A	STD/2 WKS	11/11/2013
003	TCL PCB	Analyze	8082A	STD/2 WKS	11/11/2013
004	TCL PCB	Analyze	8082A	STD/2 WKS	11/11/2013

# PROJECT INFORMATION

## E13-10707: ARSYNCO

Sample #	Test	Status	QA Method	TAT	Holding Time Expires
005	TCL PCB	Analyze	8082A	STD/2 WKS	11/11/2013
006	TCL PCB	Analyze	8082A	STD/2 WKS	11/11/2013
007	TCL PCB	Analyze	8082A	STD/2 WKS	11/11/2013
008	TCL PCB	Analyze	8082A	STD/2 WKS	11/11/2013
009	TCL PCB	Analyze	8082A	STD/2 WKS	11/11/2013
010	TCL PCB	Analyze	8082A	STD/2 WKS	11/11/2013
011	TCL PCB	Analyze	8082A	STD/2 WKS	11/11/2013
012	TCL PCB	Analyze	8082A	STD/2 WKS	11/11/2013
013	TCL PCB	Analyze	8082A	STD/2 WKS	11/11/2013
014	TCL PCB	Analyze	8082A	STD/2 WKS	11/11/2013
015	TCL PCB	Analyze	8082A	STD/2 WKS	11/11/2013
016	TCL PCB	Analyze	8082A	STD/2 WKS	11/11/2013
017	TCL PCB	Analyze	8082A	STD/2 WKS	11/11/2013
018	TCL PCB	Analyze	8082A	STD/2 WKS	11/11/2013
019	TCL PCB	Analyze	8082A	STD/2 WKS	11/11/2013
020	TCL PCB	Analyze	8082A	STD/2 WKS	11/4/2013

**Project Notes:**

REV 1 taken by kim on 10/31/2013 10:16

Lab ID's 10707-018 "Z-45 (0-1.0)" and 10707-019 "Z-45 (1.0-2.0)" should be named "Z-45R (0-1.0)" and "Z-45R (1.0-2.0)" respectively, per Chris Cho.

## INTEGRATED ANALYTICAL LABORATORIES, LLC

## SAMPLE RECEIPT VERIFICATION

CASE NO: E 13

10707

CLIENT: JMC

COOLER TEMPERATURE: 2° - 6°C: 

( See Chain of Custody)

## Comments

COC: **COMPLETE** / INCOMPLETE

## KEY

 = YES/NAVOA received:  Encore IGW - Methanol = NO(check one)  Terra Core No Preservative

- Bottles Intact
- no-Missing Bottles
- no-Extra Bottles

- Sufficient Sample Volume
- no-headspace/bubbles in VOs
- Labels intact/correct
- pH Check (exclude VOs)<sup>1</sup>
- Correct bottles/preservative
- Sufficient Holding/Prep Time<sup>1</sup>
- Multiphasic Sample
- Sample to be Subcontracted
- Chain of Custody is Clear

<sup>1</sup> All samples with "Analyze immediately" holding times will be analyzed by this laboratory past the holding time. This includes but is not limited to the following tests: pH, Temperature, Free Residual Chlorine, Total Residual Chlorine, Dissolved Oxygen, Sulfite.

ADDITIONAL COMMENTS: \_\_\_\_\_

SAMPLE(S) VERIFIED BY: INITIALS

DATE

10/28/13

CORRECTIVE ACTION REQUIRED:

YES

SEE BELOW

NO

If COC is NOT clear, **STOP** until you get client to authorize/clarify work.

CLIENT NOTIFIED:

YES  Date/ Time: \_\_\_\_\_ NO 

PROJECT CONTACT: \_\_\_\_\_

SUBCONTRACTED LAB: \_\_\_\_\_

DATE SHIPPED: \_\_\_\_\_

ADDITIONAL COMMENTS: \_\_\_\_\_

VERIFIED/TAKEN BY:

INITIALS

DATE

10/30/13

E13-10707

0141013

# Laboratory Custody Chronicle

IAL Case No.

E13-10707

Client JMC Environmental Consultants

Project ARSYNCO

Received On 10/28/2013@16:10

Department: GC

			<u>Prep. Date</u>	<u>Analyst</u>	<u>Analysis Date</u>	<u>Analyst</u>
TCL PCB	10707-001	Soil	10/29/13	Archimede	10/30/13	Nicole
"	-002	"	10/29/13	Archimede	10/30/13	Nicole
"	-003	"	10/29/13	Archimede	10/30/13	Nicole
"	-004	"	10/29/13	Archimede	10/30/13	Nicole
"	-005	"	10/29/13	Archimede	10/30/13	Nicole
"	-006	"	10/29/13	Archimede	10/30/13	Nicole
"	-007	"	10/29/13	Archimede	10/30/13	Nicole
"	-008	"	10/29/13	Archimede	10/30/13	Nicole
"	-009	"	10/29/13	Archimede	10/30/13	Nicole
"	-010	"	10/29/13	Archimede	10/30/13	Nicole
"	-011	"	10/29/13	Archimede	10/30/13	Nicole
"	-012	"	10/29/13	Archimede	10/30/13	Nicole
"	-013	"	10/29/13	Archimede	10/30/13	Nicole
"	-014	"	10/29/13	Archimede	10/30/13	Nicole
"	-015	"	10/29/13	Archimede	10/30/13	Nicole
"	-016	"	10/29/13	Archimede	10/30/13	Nicole
"	-017	"	10/29/13	Archimede	10/30/13	Nicole
"	-018	"	10/29/13	Archimede	10/30/13	Nicole
"	-019	"	10/29/13	Archimede	10/30/13	Nicole
"	-020	Aqueous	11/ 1/13	Archimede	11/ 1/13	Nicole